551.483
Un32wa
1976/77

[redacted]

[redacted]

Water Resources Data for Alabama

Water Year 1977

The Library of the

JUN 6 1978

University of Illinois
at Urbana-Champaign

JUN 7 1978

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT AL-77-1

Prepared in cooperation with the Geological Survey of Alabama, the Alabama Highway Department, and with other State, municipal, and Federal Agencies

CALENDAR FOR WATER YEAR 1977

1976

OCTOBER

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

NOVEMBER

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

DECEMBER

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

1977

JANUARY

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

FEBRUARY

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28					

MARCH

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	28	30	31		

APRIL

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

MAY

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

JUNE

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

JULY

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

AUGUST

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

SEPTEMBER

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

Water Resources Data for Alabama

Water Year 1977

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT AL-77-1

Prepared in cooperation with the Geological Survey of Alabama, the Alabama Highway Department, and with other State, municipal, and Federal Agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

CECIL D. ANDRUS, Secretary

GEOLOGICAL SURVEY

W. A. Radlinski, Acting Director

For information on the water program in Alabama write to
District Chief, Water Resources Division
U.S. Geological Survey
Post Office Box V
University, Alabama 35486

1978

PREFACE

This report was prepared by personnel of the Alabama district of the Water Resources Division of the U.S. Geological Survey under the supervision of W. J. Powell, District Chief, and L. B. Laird, Regional Hydrologist, Southeastern Region. It was done in cooperation with the State of Alabama and with other agencies.

This report is one of a series issued by State. General direction for the series is by J. S. Cragwall, Jr., Chief Hydrologist, U.S. Geological Survey, and G. W. Whetstone, Assistant Chief Hydrologist for Scientific Publications and Data Management.

BIBLIOGRAPHIC DATA SHEET	1. Report No. USGS/WRD/HD-78/004	2.	3. Recipient's Accession No.
4. Title and Subtitle Water Resources Data for Alabama, Water Year 1977			5. Report Date February 1978 6.
7. Author(s)			8. Performing Organization Rept. No. USGS-WDR-AL-77-1
9. Performing Organization Name and Address U.S. Geological Survey, Water Resources Division P. O. Box V University, Alabama 35486			10. Project/Task/Work Unit No. 11. Contract/Grant No.
12. Sponsoring Organization Name and Address U.S. Geological Survey, Water Resources Division P. O. Box V University, Alabama 35486			13. Type of Report & Period Covered Annual-Oct. 1, 1976 to Sept. 30, 1977 14.

15. Supplementary Notes
Prepared in cooperation with the Geological Survey of Alabama, the Alabama Highway Department, and with other State, municipal, and Federal agencies.

16. Abstracts Water resources data for the 1977 water year for Alabama consist of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; and water levels in wells. This report contains discharge records for 92 gaging stations; stage only for 25 gaging stations, stage and contents for 12 lakes and reservoirs; water quality for 61 gaging stations and water levels for 52 observation wells. Also included are 26 crest-stage partial-record stations, 10 flood hydrograph partial-record stations, and 33 water-quality partial-record stations. Additional water data were collected at various sites, not part of the systematic data-collection program, and are published as miscellaneous measurements and analyses. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Alabama.

17. Key Words and Document Analysis. 17a. Descriptors
*Alabama, *Hydrologic data, *Surface water, *Ground water, *Water quality, Flow rate, Gaging stations, Lakes, Reservoirs, Chemical analyses, Sediments, Water temperatures, Sampling sites, Water levels, Water analyses.

17b. Identifiers/Open-Ended Terms
Alabama

17c. COSATI Field/Group

18. Availability Statement	19. Security Class (This Report)	21. No. of Pages
No restriction on distribution. This report may be purchased from: National Technical Information Service, Springfield, VA 22161	UNCLASSIFIED	459
	20. Security Class (This Page) UNCLASSIFIED	22. Price

CONTENTS

	Page
Preface	III
List of gaging stations, in downstream order, for which records are published	VII
List of ground-water wells, by county, for which records are published	X
Introduction	1
Cooperation	2
Hydrologic conditions	2
Definition of terms	4
Downstream order and station numbers	10
Numbering system for wells and miscellaneous sites	11
Special networks and programs	12
Explanation of stage and water-discharge records	12
Collection and computation of data	12
Accuracy of field data and computed results	16
Other data available	17
Records of discharge collected by agencies other than the Geological Survey	17
Explanation of water-quality records	18
Collection and examination of data	18
Water analysis	18
Water temperature	18
Sediment	19
Records collected by agencies other than the Geological Survey	19
Explanation of ground-water level records	19
Collection of data	19
Records collected by agencies other than the Geological Survey	20
Publications on techniques of water-resources investigations	21
Hydrologic data station records	29
Discharge at partial-record stations and miscellaneous sites	322
Flood hydrograph partial-record stations	322
Crest-stage partial-record stations	335
Discharge measurements at miscellaneous sites	338
Analyses of samples collected at water-quality partial-record stations	345
Analyses of samples collected at miscellaneous sites	409
Ground-water records	429
Ground-water level records	429
Index	455

ILLUSTRATIONS

Page

Figure 1. Comparison of discharge of two long-term representative gaging stations during 1977 water year with median discharge for years 1941-70 24
2. Monthly low water levels during water year 1977 compared with highest and lowest monthly low water levels for period 1952-76 for two observation wells 25
3. System for numbering wells and miscellaneous sites 11
4. Map of Alabama showing location of gaging stations 26
5. Map of Alabama showing location of water-quality stations 27
6. Map of Alabama showing location of partial-record stations 321
7. Map of Alabama showing location of observation wells 428

GAGING STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED

(Letter after station name designates type of data: (d) discharge, (c) chemical, (b) biological, (m) microbiological, (t) water temperature, (s) sediment, (g) gage height)

EASTERN GULF OF MEXICO BASINS — Page

APALACHICOLA RIVER BASIN
Chattahoochee River (head of Apalachicola River)
Uchee Creek near Fort Mitchell (d) 29
South Fork Cowikee Creek near Batesville (d) 30
Abbie Creek near Haleburg (d) 31
CHOCTAWHATCHEE RIVER BASIN
Choctawhatchee River near Newton (dctg) 32
Choctawhatchee River near Geneva (g) 36
Pea River:
Pea River near Ariton (c) 37
Pea River at Elba (g) 38
Flat Creek:
Panther Creek near Hacoda (d) 39
BLACKWATER RIVER BASIN
Blackwater River near Bradley (dc) 40
ESCAMBIA RIVER BASIN
Conecuh River (head of Escambia River):
Indian Creek near Troy (dt) 42
Conecuh River at Brantley (dct) 45
Patsaligo Creek near Brantley (d) 48
Conecuh River at River Falls (g) 49
Sepulga River near McKenzie (dc) 50
Sepulga River at Brooklyn (dg) 52
Conecuh River at Brewton (g) 53
Murder Creek near Evergreen (dc) 54
Murder Creek at Kirkland (d) 56
Escambia River near Century, Fla. (d) 57
PERDIDO RIVER BASIN
Perdido River at Barrineau Park, Fla. (dc) 58
MOBILE RIVER BASIN
Coosa River (head of Alabama River)
Chattooga River
Little River near Blue Pond (dc) 61
Coosa River at Gadsden (tg) 63
Big Wills Creek near Crudup (c) 66
Big Canoe Creek at Ashville (dc) 67
Gulf Creek near Steele (d) 69
Choccolocco Creek:
Coldwater Spring near Anniston (d) 70
Choccolocco Creek at Jackson Shoals near Lincoln (c) 71
Coosa River at Childersburg (dct) 72
Hatchet Creek near Rockford (dc) 75
Sofkahatchee Creek:
Paterson Creek near Central (d) 77
Coosa River at Jordam Dam, near Wetumpka (dc) 78
Coosa River at Wetumpka (g) 80

GAGING STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED

MOBILE RIVER BASIN--Continued Page
Coosa River--Continued
Tallapoosa River near Heflin (dc) 81
Little Tallapoosa River near Newell (d) 83
Tallapoosa River at Wadley (dcg) 84
Tallapoosa River below Tallassee (dc) 87
Uphapee Creek near Tuskegee (dc) 89
Tallapoosa River near Montgomery (gc) 91
Alabama River (continuation of Coosa River):
Alabama River at Montgomery (g) 92
Alabama River near Montgomery (dbcts) 93
Catoma Creek near Montgomery (dc) 101
Alabama River at Jones Bluff lock and dam near Benton (g) ... 103
Big Swamp near Lowndesboro (c) 104
Mulberry Creek at Jones (dc) 105
Alabama River at Selma (tg) 107
Cahaba River near Cahaba Heights (d) 110
Shades Creek near Greenwood (dct) 111
Cahaba River near West Blocton (d) 114
Cahaba River at Centreville (dcg) 115
Oakmulgee Creek near Augustin (d) 118
Cahaba River near Marion Junction (dg) 121
Big Swamp Creek near Orrville (d) 124
Cedar Creek at Minter (dc) 131
Alabama River at Millers Ferry lock and dam, near Camden (g) 133
Beaver Creek:
Turkey Creek at Kimbrough (dc) 134
Alabama River at Claiborne lock and dam near Monroeville (dg) 136
Alabama River at Claiborne (bcts) 138
Little River near Uriah (dc) 143
Tombigbee River:
Coal Fire Creek near Pickensville (d) 145
Tombigbee River near Cochrane (dct) 146
Noxubee River near Geiger (d) 150
Tombigbee River at Gainesville (dbctsg) 151
Brush Creek near Eutaw (d) 159
Mulberry Fork:
Mulberry Fork (head of Black Warrior River) near Garden City (dc) 160
Mulberry Fork near Arkadelphia (d) 162
Sipsey Fork near Grayson (dcs) 163
Mulberry Fork near Cordova (g) 167
Locust Fork near Cleveland (d) 168
Turkey Creek at Morris (dcts) 169
Turkey Creek upstream from Kimberly (ts) 172
Crooked Creek near Morris (dcts) 175
Locust Fork at Sayre (dc) 190
Fivemile Creek at Ketona (d) 192
Village Creek at Ave. W in Ensley (d) 193
Village Creek near Adamsville (dc) 194
Valley Creek near Bessemer (d) 196
Valley Creek near Oak Grove (c) 197

MOBILE RIVER BASIN--Continued Page
Alabama River--Continued
Tombigbee River--Continued
Black Warrior River:
Black Warrior River at Bankhead lock and dam, near Bessemer (dg) 198
Blue Creek near Oakman (dcbs) 200
Black Warrior River at Holt lock and dam, near Holt (dg). 206
Yellow Creek near Northport (dbcts) 208
North River:
Bear Creek near Samantha (dbcts) 227
North River near Samantha (dc) 242
Black Warrior River at Northport (dct) 244
Black Warrior River at Oliver lock and dam, at Tuscaloosa (g) 247
Elliotts Creek near Moundville (d) 248
Black Warrior River at Warrior lock and dam near Eutaw (d) 249
Black Warrior River below Warrior lock and dam near Eutaw (g) 250
Tombigbee River at Demopolis lock and dam near Coatopa (d) 251
Tombigbee River below Demopolis lock and dam near Coatopa (g) 252
Sucarnoochee River at Livingston (dc) 253
Chickasaw Bogue near Linden (dc) 255
Tombigbee River at Coffeeville lock and dam near Coffeeville (d) 257
Tombigbee River below Coffeeville lock and dam near Coffeeville (bctsg) 266
Satilpa Creek near Coffeeville (dc) 273
Chickasaw Creek near Kushla (dc) 275
Reservoirs in Mobile River basin 277
DOG RIVER BASIN
Montlimar Creek at U.S. Highway 90 at Mobile (d) 280
PASCAGOULA RIVER BASIN
Pascagoula River:
Escatawpa River near Agricola, Miss. (dc) 281
MISSISSIPPI RIVER BASIN
Mississippi River:
OHIO RIVER BASIN
Ohio River:
TENNESSEE RIVER BASIN
Tennessee River:
Tennessee River at South Pittsburg, Tenn. (d) 283
Crow Creek at Bass (dc) 284
Town Creek near Geraldine (dc) 286
Paint Rock River near Woodville (dc) 288
Flint River near Chase (dct) 290
Flint River near Mt. Carmel (c) 294
Tennessee River at Whitesburg (d) 296

GAGING STATIONS, IN DOWNSTREAM ORDER,
FOR WHICH RECORDS ARE PUBLISHED

MISSISSIPPI RIVER BASIN--Continued Page
OHIO RIVER BASIN--Continued
TENNESSEE RIVER BASIN--Continued
Tennessee River--Continued
Indian Creek:
Indian Creek near Madison (d) 297
Huntsville Spring Branch near Martin Road near Huntsville (c) 298
Cotaco Creek at Florette (dc) 299
Tennessee River at Decatur (t) 301
Elk River near Prospect, Tenn. (d) 303
Big Nance Creek at Courtland (d) 304
Shoal Creek at Iron City, Tenn. (d) 306
Tennessee River at Florence (dc) 307
Bear Creek near Hackleburg (d) 309
Bear Creek near Red Bay (d) 312
Cedar Creek near Pleasant Site (d) 313
Little Bear Creek near Halltown (d) 316
Bear Creek at Bishop (dt) 317
Reservoirs in Tennessee River basins in Alabama 320

GROUND-WATER WELLS, BY COUNTY,
FOR WHICH RECORDS ARE PUBLISHED

BALDWIN COUNTY
Well 302435087414001 (Bal-1) 429
BIBB COUNTY
Well 325622087075501 (Bib-1) 429
BULLOCK COUNTY
Well 320846085411001 (Bul-1) 430
BUTLER COUNTY
Well 314355086440501 (But-3) 430
Well 314440086273801 (But-2) 431
Well 315700086315001 (But-4) 431
CALHOUN COUNTY
Well 334218085491701 (Cal-1) 432
CLARKE COUNTY
Well 313040087531001 (Cla-1) 432
COLBERT COUNTY
Well 344622087375201 (Col-1) 433
CULLMAN COUNTY
Well 341031086504301 (Cul-1) 433
ELMORE COUNTY
Well 323757086013901 (Elm-1) 434
FRANKLIN COUNTY
Well 343131087442801 (Fra-1) 434
GREENE COUNTY
Well 324930088063501 (W-3) 435
Well 324930088063502 (W-4) 435
Well 325005087532001 (Gre-3) 436
Well 325213088092301 (O-2) 436

Page

HALE COUNTY
Well 324205087352801 (Hal-1) 437
JACKSON COUNTY
Well 344003086012102 (Jac-2) 437
JEFFERSON COUNTY
Well 332605086523001 (Jef-1) 438
LAUDERDALE COUNTY
Well 345034087552201 (Lau-1) 438
LAWRENCE COUNTY
Well 342718087285601 (Law 3) 439
Well 344004087205101 (Law-2) 439
LIMESTONE COUNTY
Well 344819086581601 (Lim-4) 440
MADISON COUNTY
Well 343540086344801 (Mad-5) 440
Well 344127086350401 (Mad-2) 441
Well 344402086343901 (Mad-1) 441
Well 344445086345301 (Mad-7) 442
Well 344457086363701 (Mad-4) 442
MARENGO COUNTY
Well 321520087373001 (Mag-2) 443
Well 323055087504101 (Mag-1) 443
MARION COUNTY
Well 335803087551301 (Mar-1) 444
MARSHALL COUNTY
Well 341837086294301 (Mal-4) 444
Well 342022086183401 (Mal-2) 445
Well 342455086160201 (Mal-1) 445
MOBILE COUNTY
Well 304819088041501 (Mob-2) 446
Well 305743088010301 (Mob-1) 446
MONROE COUNTY
Well 313120087202501 (Mon-3) 447
MONTGOMERY COUNTY
Well 322040086232501 (Mtg-4) 447
Well 322047086214301 (Mtg-3) 448
Well 322121086232701 (Mtg-2) 448
Well 322455086140501 (Mtg-5) 449
MORGAN COUNTY
Well 343425086550001 (Mor-4) 449
Well 343604086574201 (Mor-3) 450
PICKENS COUNTY
Well 331107088180301 (P-25) 450
Well 331107088180302 (P-26) 451
Well 331350088161902 (P-22) 451
ST. CLAIR COUNTY
Well 333525086163701 (Stc-1) 452
SUMTER COUNTY
Well 325215088111301 (F-10) 452

GROUND-WATER WELLS, BY COUNTY,
FOR WHICH RECORDS ARE PUBLISHED

Page

TALLADEGA COUNTY
Well 331021086150501 (Tal-2) 453
TUSCALOOSA COUNTY
Well 331045087342501 (Tus-4) 453
Well 331239087323601 (Tus-1) 454
Well 331340087381601 (Tus-5) 454

WATER RESOURCES DATA FOR ALABAMA, 1977

INTRODUCTION

Water resources data for the 1977 water year for Alabama consist of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; and water levels and water quality of ground water. This report contains discharge records for 92 gaging stations; stage only records for 25 gaging stations; stage and contents for 12 lakes and reservoirs; water quality for 61 gaging stations, 33 partial-record stations, and 3 wells, and water levels for 52 observation wells. Also included are 26 crest-stage partial-record stations, and 10 flood hydrograph partial-record stations. Additional water data were collected at various sites, not involved in the systematic data-collection program, and are published as miscellaneous measurements. Discharge records for a few pertinent stations in bordering states are also included in this report. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Alabama.

Records of discharge or stage of streams, and contents or stage of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1974 in a series of water-supply papers entitled "Ground-Water Levels in the United States." Water-supply papers may be consulted in the libraries of the principal cities in the United States or may be purchased from Branch of Distribution, U.S. Geological Survey, 604 South Pickett Street, Alexandria, VA 22304.

For water years 1961 through 1974, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1974 were similarly released either in separate reports or in conjunction with streamflow records. Beginning with the 1975 water year, water data for streamflow, water quality, and ground water are published as an official Survey report on a State-boundary basis. These official Survey reports carry an

identification number consisting of the two letter State abbreviation, the last two digits of the water year, and the volume number. For example, this report is identified as "U.S. Geological Survey Water-Data Report AL-77-1." Water-Data reports are for sale by the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia, 22151.

COOPERATION

The U.S. Geological Survey and organizations of the State of Alabama have had cooperative agreements for the systematic collection of streamflow records since 1900. Cooperative agreements between the U.S. Geological Survey and the Geological Survey of Alabama for collection of streamflow records have been continuous since 1935. There have been cooperative agreements for the collection of ground-water level records since 1940, and for the collection of water-quality records since 1962. Organizations that assisted in collecting data for this report through cooperative agreements with the Survey are:

Geological Survey of Alabama, Thomas J. Joiner, State Geologist.

Alabama Highway Department, Ray D. Bass, Director.

The Corps of Engineers, U.S. Army gave assistance in the form of funds or services in operating a two-parameter water-quality monitor, 20 discharge stations, 21 stage stations, 8 observation wells and in publishing stage records for 9 stations which the National Weather Service operated.

Under a cooperative agreement covering the Tennessee River basin, the Tennessee Valley Authority furnished financial assistance for operation of 9 gaging stations and furnished records of daily maximum and minimum water temperature.

The Alabama Power Company (Federal Power Commission licensee) aided in collecting records.

HYDROLOGIC CONDITIONS

Streamflow during the 1977 water year was generally above normal throughout Alabama. Cumulative runoff for Cahaba River at Centreville for the year was 29 percent higher than the median cumulative runoff for the period 1941-70. However, a sharp contrast in the streamflow extremes occurred between March and the end of the water year.

The 1977 water year began with normal flow conditions. Runoff in southern Alabama was excessive (in the highest 25 percent of record) during 4 of the first 6 months of the water year. Flooding occurred during March and April in the east-central part of

the State resulting in peaks equal to about the 5-year flood. Isolated flooding in the upper Tallapoosa River basin produced the maximum discharge of record. The peak discharge on March 31 at Tallapoosa River near Heflin exceeded the 100-year flood.

The two long-term index stations indicated the drought conditions in Alabama during late spring and summer. Streamflow for each month, May to August, was below average at key stations.

Figure 1 shows the monthly and yearly mean discharge for the two long-term representative gaging stations for water year 1977. For comparison, the median of the monthly and yearly discharge for 1941-70 is also shown. The drainage basins for these two streams are approximately centered in the north half and the south half of the State.

Ground-water levels in most observation wells tapping consolidated and unconsolidated aquifers in the State rose to a high in March and April, and declined steadily thereafter. The water levels in a few wells tapping consolidated aquifers in the northern part of the State recovered and rose in August and September. New all-time high water levels were recorded in eight wells: six wells tapping aquifers of Early and Late Mississippian and Pennsylvanian age in northern Alabama and two wells tapping aquifers of Late Cretaceous and Quaternary age in the Coastal Plain area. Ten wells tapping aquifers of Pennsylvanian, Late Cretaceous, and Quaternary age in the State recorded new all-time low water levels.

Figure 2 shows the monthly low water level during water year 1977 compared with the highest and lowest monthly low water levels for the period 1952-76 for two observation wells.

The monthly low water level for well 325622087075501 (Bib-1), tapping the Copper Ridge Dolomite of Late Cambrian age and Chepultepec Dolomite of Early Ordovician age, ranged from near the highest monthly lows of record during April and September of water year 1977 to near the lowest monthly lows of record during October to March and May to August.

The monthly low water level for well 322047086214301 (Mtg-3), tapping the Eutaw Formation of Late Cretaceous age, ranged from slightly above to slightly below the median of the highest and lowest monthly lows of record throughout the water year 1977.

DEFINITION OF TERMS

Terms related to streamflow, water quality, and other hydrologic data, as used in this report, are defined below. See also table for converting English units to International System of units (SI) on the inside of the back cover.

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Bacteria are microscopic unicellular organisms, typically spherical, rod-like, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory these bacteria are defined as all the organisms which produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35°C ± 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal coliform bacteria are bacteria that are present in the intestine or feces of warmblooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5°C ± 0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found also in the intestine of warmblooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C ± 1.0°C on M-enterrococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, used for the decomposition of organic matter by microorganisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as the weight per unit area or volume of habitat.

Ash weight is the weight or amount of residue present after the residue from the dry weight determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash weight values of zooplankton and phytoplankton are expressed in grams per cubic meter (g/m^3), and periphyton and benthic organisms in grams per square meter (g/m^2).

Dry weight refers to the weight of residue present after drying in an oven at 60°C for zooplankton and 105°C for periphyton, until the weight remains unchanged. This weight represents the total organic matter, ash and sediment, in the sample. Dry weight values are expressed in the same unit as ash weight.

Cells/volume refers to the number of cells of any organism which is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample, usually milliliters (mL) or liters (L).

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, or about 646,000 gallons or 2,445 cubic meters. It represents a runoff of approximately 0.0372 inch from 1 square mile or 0.3468 millimeter from 1 square kilometer.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common green pigments in plants.

Contents is the volume of water in a reservoir, lake, stream or aquifer. Contents herein is that of a reservoir or lake and unless otherwise indicated, is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second (FT^3/s, ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

Discharge is the volume of water (or more broadly, total fluids), that passes a given point within a given period of time.

Mean discharge (MEAN) is the arithmetic average of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

Dissolved refers to the amount of substance present in true chemical solution. In practice, however, the term includes all forms of substance that will pass through a 0.45-micrometer membrane filter, and thus may include some very small (coloidal) suspended particles. Analyses are performed on filtered samples.

Drainage area of a stream at a specified location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharge are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is computed.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an 8-digit number.

Land surface datum (lsd) is a precise datum plane that is approximately at land surface at each ground-water observation well.

Measuring point (MP) is a permanent point from which the distance to the water surface is measured to obtain the water level.

Micrograms per liter (UG/L, ug/L) is a unit expressing the concentration of chemical constituents in solution as the weight (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (MG/L, mg/l) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represent the mass of solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/L, and is based on the mass of sediment per liter of water-sediment mixture.

Observation well is a well tapping a representative aquifer for a selected area for the purpose of obtaining records of water-level fluctuations and(or) ground-water quality changes.

Organism is any living entity, such as an insect, phytoplankton, or zooplankton.

Partial-record station is a particular site where limited streamflow and/or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay.....	0.00024 - 0.004	Sedimentation.
Silt.....	.004 - .062	Sedimentation.
Sand.....	.062 - 2.0	Sedimentation or sieve.
Gravel.....	2.0 -64.0	Sieve.

The particle-size distribution given in this report is not necessarily representative of all particles in transport in the stream.

Percent composition is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, weight, or volume.

Pesticides are chemical compounds used to control undesirable plants and animals. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Insecticides and herbicides, which control insects and plants respectively, are the two categories reported.

Picocurie (PC, pCi) is one trillionth (1×10^{12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

Phytoplankton is the plant part of the plankton. They are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment, and are commonly known as algae.

Runoff in inches (IN, in) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L).

Suspended-sediment discharge (tons/day) is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight or volume, that passes a section in a given time. It is computed by multiplying discharge times mg/L times 0.0027.

Sodium-adsorption-ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions with soil and is an index of sodium or alkali hazard to the soil. Waters range in respect to sodium hazard from those which can be used for irrigation on almost all soils to those which are generally unsatisfactory for irrigation.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in micromhos per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content in the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream or from well to well, and it may even vary in the same source with changes in the composition of the water.

Spring is a place where ground water flows naturally from a rock or the soil onto the land surface or into a body of surface water. Its occurrence depends on the nature and relationship of rocks, especially permeable and impermeable strata, on the position of the water table, and on the topography.

Stage-discharge relation is the relation between gage height (stage) and the volume of water per unit of time, flowing in a channel.

Temperature recorder is the term used to indicate the presence of a thermograph or a digital mechanism that automatically records water temperatures on paper tape. Thermograph is a thermometer that continuously and automatically records, on a chart, the water temperature of a stream.

Tons per day is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour day.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchical scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, *Hexagenia limbata* is the following:

Kingdom.....Animal
Phylum.....Arthropoda
Class.....Insects
Order.....Ephemeroptera
Family.....Ephemeridae
Genus.....*Hexageria*
Species.....*Hexagenia limbata*

WRD is used as an abbreviation for "Water-Resources Data" in the REVISED RECORDS paragraph to refer to State annual basic-data reports published before 1975.

WSP is used as an abbreviation for "Water-Supply Paper" in references to previously published reports.

DOWNSTREAM ORDER AND STATION NUMBERS

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary that enters between two main-stream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is situated with respect to the stream to which it is immediately tributary is indicated by an indention in a list of stations in the front of the report. Each indention represents one rank. This downstream order and system of indention show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

As an added means of identification, each gaging station, partial-record station, and water-quality station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and gaging stations; therefore, the station number for a partial-record station indicates downstream order position in the list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station, such as 02371500, which appears just to the left of the station name includes the 2-digit part number "02" plus the

6-digit downstream order number "371500." In this report, the records are listed in downstream order by parts. The part number refers to an area whose boundaries coincide with certain natural drainage lines. Records in this report are in Part 2 (Eastern Gulf of Mexico basin) and Part 3 (Ohio River basin). All records for a drainage basin encompassing more than one state can be arranged in downstream order by assembling pages from the various state reports by station number to include all records in the basin.

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

The 8-digit downstream order station numbers are not assigned to wells and miscellaneous sites where only random water-quality samples or discharge measurements are taken.

The well and miscellaneous site numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The system provides the geographic location of the well or miscellaneous site and a unique number for each well. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits (assigned sequentially) identify the wells within a 1-second grid. In the event that the latitude-longitude coordinates for a well and a miscellaneous site are the same, assign sequential numbers "01," "02," etc. as one would for wells. See figure 3 below.

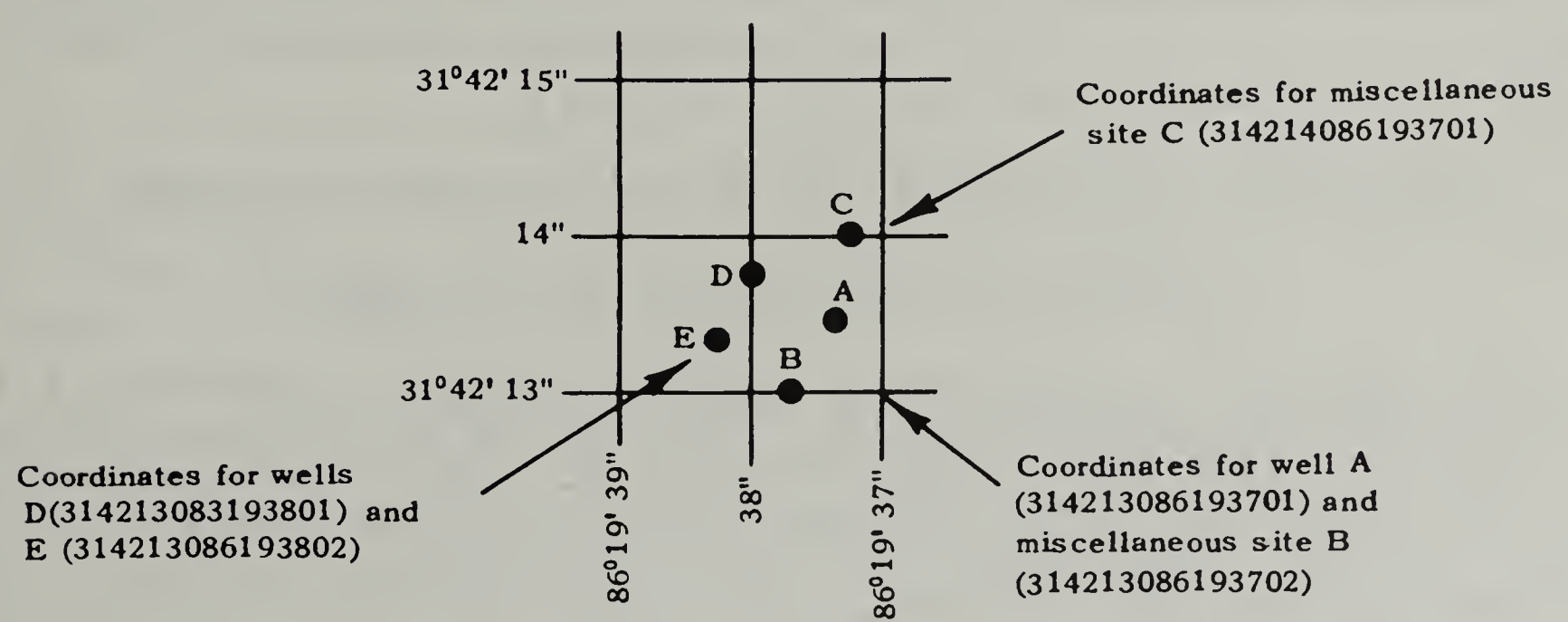

Figure 3.--System for numbering wells and miscellaneous sites (latitude and longitude).

A local well-numbering system used in Alabama for wells equipped with continuous water-stage recorders utilizes county name abbreviations followed by serial numbers. For example, Bib-1 is well 1 in Bibb County.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

National stream-quality accounting network (NASQAN) is a data collection network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated in the network design. Areal configuration of the network is based on river-basin accounting units (identified by 8-digit hydrologic-unit numbers) designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of streamflow and water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in streamflow and stream quality.

Pesticide program is a network of regularly sampled water-quality stations where samples are collected to determine the concentration and distribution of pesticides in streams where potential contamination could result from the application of the commonly used insecticides and herbicides. Operation of the network is a Federal interagency activity.

EXPLANATION OF STAGE AND WATER-DISCHARGE RECORDS

Collection and computation of data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from either direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at selected time intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey.

These methods are described in standard text-books, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharge are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by the backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

For a reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed.

If the stage-capacity curve is subject to changes because of depositions of sediment in the reservoir, periodic resurveys of the reservoir are necessary to prepare new stage-capacity curves. During the period between reservoir surveys, the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in

the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, adjoining good record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise daily contents may be estimated on the basis of operator's log, adjoining good record, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and a table showing the daily, monthly, and yearly discharge of the stream. For gaging stations on lakes and reservoirs, a monthly summary table of stage and contents is given. Tables of daily mean gage heights are included for some streamflow stations and once daily gage height readings are included for some stage stations. Records are published for the water year which begins on October 1 and ends on September 30.

The description of the gaging station gives the location, drainage area, period of record, type and history of gages, average discharge, extremes of discharge or contents, and general remarks. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations, is that reported and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD."

Previously published streamflow records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISED RECORDS" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which the figures are revised in that report. In listing the water years only one number is given; for instance, 1965 stands for the water year October 1, 1964, to September 30, 1965. If no daily, monthly, or annual figures of discharge are affected by the revisions, the fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of report.

The type of gage currently in use, the datum of the present gage above mean sea level, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." In references to datum of gage, the phrase "mean sea level" denotes "Sea Level Datum of 1929" as used by the Topographic Division of the Geological Survey unless otherwise qualified.

Information pertaining to the accuracy of the discharge records and to conditions which affect the natural flow at the gaging station is given under "REMARKS." For reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir is given under "REMARKS."

The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. Under "EXTREMES" are given first, the extremes for the period of record, second, information available outside the period of record, and last, those for the current year. Unless otherwise qualified, the maximum discharge (or contents) is the instantaneous maximum corresponding to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a non-recording gage read at the time of the crest. If the maximum gage height did not occur on the same day as the maximum discharge (or contents), it is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified. For some stations peak discharges are listed with EXTREMES FOR THE CURRENT YEAR; if they are, all independent peaks, including the maximum for the year, above the selected base with the time of occurrence and corresponding gage heights are published in tabular format. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330. The minimums for these stations are published in a separate paragraph following the table of peaks.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic

feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN"), or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas, or if the average annual rainfall over the drainage basin is usually less than 20 inches. In the yearly summary below the monthly summary, the figures shown are the appropriate daily discharges for the calendar and water years.

Footnotes to the table of daily discharge are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, or indefinite stage-relation, or of any unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

For most gaging stations on lakes and reservoirs the data presented comprise a description of the station and a monthly summary table of stage and contents. For some reservoirs a table showing daily contents or stage is given. A skeleton table of capacity at given stages is published for all reservoirs for which records are published on a daily basis, but is not published for reservoirs for which only monthly data are given.

Data collected at partial-record stations follow the information for continuous-record sites. Data for partial-record discharge stations are presented in four tables. The first is a table of discharge measurements made at low-flow partial-record stations, second is gage height and discharge at selected times for major flood peaks at flood hydrograph partial-record stations, third is a table of annual maximum stage and discharge at crest-stage partial-record stations, and fourth is a table of discharge measurements made at miscellaneous sites.

Accuracy of field data and computed results

The accuracy of streamflow data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretations of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent

of the daily discharges are within 5 percent; "good", within 10 percent; and "fair" within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 cfs; to tenths between 1.0 and 10 cfs; to whole numbers between 10 and 1,000 cfs; and to 3 significant figures above 1,000 cfs. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other data available

Information of a more detailed nature than that published for most of the gaging stations such as observations of water temperatures, discharge measurements, gage-height records, and rating tables is on file in the district office. Also, most gaging-station records are available in computer-usable form and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the district office.

Records of discharge collected by agencies other than the Geological Survey

The Tennessee Valley Authority, the Corps of Engineers, the Geological Survey of Alabama, and National Weather Service have collected records of discharge and records of stage at many sites in Alabama during the 1977 water year that are not included in this report.

EXPLANATION OF WATER-QUALITY RECORDS

Collection and examination of data

Surface-water samples for analyses usually are collected at or near gaging stations. The quality-of-water records are given immediately following the discharge records at these stations.

The descriptive heading for water-quality records gives the period of record for all water-quality data; the period of record for parameters that are measured on a daily basis (specific conductance, water temperature), extremes for the period of daily record, extremes for the current water year, and general remarks.

Water analysis

Most methods for collecting and analyzing water samples are described in U.S. Geological Survey Techniques of Water-Resources Investigations listed on a following page.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum and minimum values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the district office.

Water temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of

discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once daily, the water temperatures are taken at about the same time each day. Large streams have a small diel temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharge.

At stations where recording instruments are used, maximum and minimum temperatures for each day are published.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected at some stations more frequently (twice daily or, in some instances, hourly or less intervals). At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

Records collected by agencies other than the Geological Survey

The Geological Survey of Alabama, Alabama Water Improvement Commission, Alabama Health Department, Alabama Power Company, Corps of Engineers, Tennessee Valley Authority, Environmental Protection Agency, and National Aeronautics and Space Administration and various county and city agencies have collected records of water quality at many sites in Alabama during the 1977 water year.

EXPLANATION OF GROUND-WATER-LEVEL RECORDS

Collection of the data

Ground-water-level data from a network of observation wells are published herein. This basic network contains observation wells so located that the most significant data are obtained from the most important aquifers.

Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local number that is provided for local needs. See figure 3.

Measurements are made in many types of wells, under varying conditions of access and at different temperatures; hence, neither the method of measurement nor the equipment can be standardized. At each observation well, however, the equipment and techniques used are those that will ensure that measurements at each well are consistent.

Water-level measurements in this report are given in feet with reference to land-surface datum (lsd). Land-surface datum is a datum plane that is approximately at land surface at each well. If known, the altitude of the land-surface datum above mean sea level is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day, the end of each month (eom), and for dates when check measurements were made.

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet, the error in determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given only to a tenth of a foot or a larger unit.

Records collected by agencies other than the U.S. Geological Survey

The Geological Survey of Alabama, Alabama Health Department, U.S. Army, Corps of Engineers, and Tennessee Valley Authority have collected water-level records and other information on many wells in Alabama during the 1977 water year.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

Thirty-one manuals by the U.S. Geological Survey have been published to date in the series on techniques describing procedures for planning and executing specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) is on surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises. The reports listed below are for sale by the U.S. Geological Survey, Branch of Distribution, 604 South Pickett Street, Alexandria, VA 22304 (authorized agent of the Superintendent of Documents, Government Printing Office).

NOTE: When ordering any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations".

1-D1. *Water temperature-influential factors, field measurement, and presentation,* by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS-TWRI Book 1, Chapter D1. 1975. 65 pages. $1.15.

2-D1. *Application of surface geophysics to ground-water investigations,* by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS-TWRI Book 2, Chapter D1. 1974. 116 pages. $1.90.

2-E1. *Application of borehole geophysics to water-resources investigations,* By W. S. Keys and L. M. MacCary: USGS-TWRI Book 2, Chapter E1. 1971. 126 pages. $1.75.

3-A1. *General field and office procedures for indirect discharge measurements,* by M. A. Benson and Tate Dalrymple: USGS-TWRI Book 3, Chapter A1. 1967. 30 pages. $0.25.

3-A2. *Measurement of peak discharge by the slope-area method,* by Tate Dalrymple and M. A. Benson: USGS-TWRI Book 3, Chapter A2. 1967. 12 pages. $0.20.

3-A3. *Measurement of peak discharge at culverts by indirect methods,* by G. L. Bodhaine: USGS-TWRI Book 3, Chapter A3. 1968. 60 pages. $0.40.

3-A4. *Measurement of peak discharge at width contractions by indirect methods,* by H. F. Matthai: USGS-TWRI Book 3, Chapter A4. 1967. 44 pages. $1.00.

3-A5. *Measurement of peak discharge at dams by indirect methods,* by Harry Hulsing: USGS-TWRI Book 3, Chapter A5. 1967. 29 pages. $0.30.

3-A6. *General procedure for gaging streams,* by R. W. Carter and Jacob Davidian: USGS-TWRI Book 3, Chapter A6, 1968. 13 pages. $0.20.

3-A7. *Stage measurements at gaging stations,* by T. J. Buchanan and W. P. Somers: USGS-TWRI Book 3, Chapter A7. 1968. 28 pages. $0.45.

3-A8. *Discharge measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS-TWRI Book 3, Chapter A8. 1969. 65 pages. $1.25.

3-A11. *Measurement of discharge by moving-boat method*, by G. F. Smoot and C. E. Novak: USGS-TWRI Book 3, Chapter A11. 1969. 22 pages. $0.40.

3-A12. *Fluorometric procedures for dye tracing*, by J. F. Wilson, Jr.: USGS-TWRI Book 3, Chapter A12. 1968. 31 pages. $0.35. Not currently available.

3-B1. *Aquifer-test design, observation, and data analysis*, by R. W. Stallman: USGS-TWRI Book 3, Chapter B1. 1971. 26 pages. $0.70.

3-B2. *Introduction to ground-water hydraulics - a programed text for self-instruction*, by D. S. Bennett: USGS-TWRI Book 3, Chapter B2. 1976. 172 pages.$2.50.

3-C1. *Fluvial sediment concepts*, by H. P. Guy: USGS-TWRI Book 3, Chapter C1. 1970. 55 pages. $0.65.

3-C2. *Field methods for measurement of fluvial sediment*, by H. P. Guy and V. W. Norman: USGS-TWRI Book 3, Chapter C2. 1970. 59 pages. $0.70.

3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS-TWRI Book 3, Chapter C3. 1972. 66 pages. $1.15.

4-A1. *Some statistical tools in hydrology*, by H. C. Riggs: USGS-TWRI Book 4, Chapter A1. 1968. 39 pages. $0.30.

4-A2. *Frequency curves*, by H. C. Riggs: USGS-TWRI Book 4, Chapter A2. 1968. 15 pages. $0.20.

4-B1. *Low-flow investigations*, by H. C. Riggs: USGS-TWRI Book 4, Chapter B1. 1972. 18 pages. $0.65.

4-B2. *Storage analyses for water supply*, by H. C. Riggs and C. H. Hardison: USGS-TWRI Book 4, Chapter B2. 1973. 20 pages. $0.75.

4-B3. *Regional analyses of streamflow characteristics*, by H. C. Riggs: USGS-TWRI Book 4, Chapter B3. 1973. 15 pages. $0.75.

4-D1. *Computation of rate and volume of stream depletion by wells*, by C. T. Jenkins: USGS-TWRI Book 4, Chapter D1. 1970. 17 pages. $0.65.

5-A1. *Methods for collection and analysis of water samples for dissolved minerals and gases*, by Eugene Brown, M. W. Skougstad, and M. J. Fishman: USGS-TWRI Book 5, Chapter A1. 1970. 160 pages. $2.40.

5-A2. *Determination of minor elements in water by emission spectroscopy*, by P. R. Barnett and E. C. Mallory, Jr.: USGS-TWRI Book 5, Chapter A2. 1971. 31 pages. $0.80.

5-A3. *Methods for analysis of organic substances in water*, by D. F. Goerlitz and Eugene Brown: USGS-TWRI Book 5, Chapter A3. 1972. 40 pages. $0.90.

5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, by K. V. Slack, R. C. Averett, P. E. Greeson, and R. G. Lipscomb: USGS-TWRI Book 5, Chapter A4. 1973. 165 pages. $1.95.

5-C1. *Laboratory theory and methods for sediment analysis*, by H. P. Guy: USGS-TWRI Book 5, Chapter C1. 1969. 58 pages. $0.65.

7-C1. *A digital model for aquifer evaluation*, by G. F. Pinder: USGS-TWRI Book 7, Chapter C1. 1970. 18 pages. $0.65.

8-A1. *Methods of measuring water levels in deep wells*, by M. S. Garber and F. C. Koopman: USGS-TWRI Book 8, Chapter A1. 1968. 23 pages. $0.70.

8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G. F. Smoot and C. E. Novak: USGS-TWRI Book 8, Chapter B2. 1968. 15 pages. $0.40.

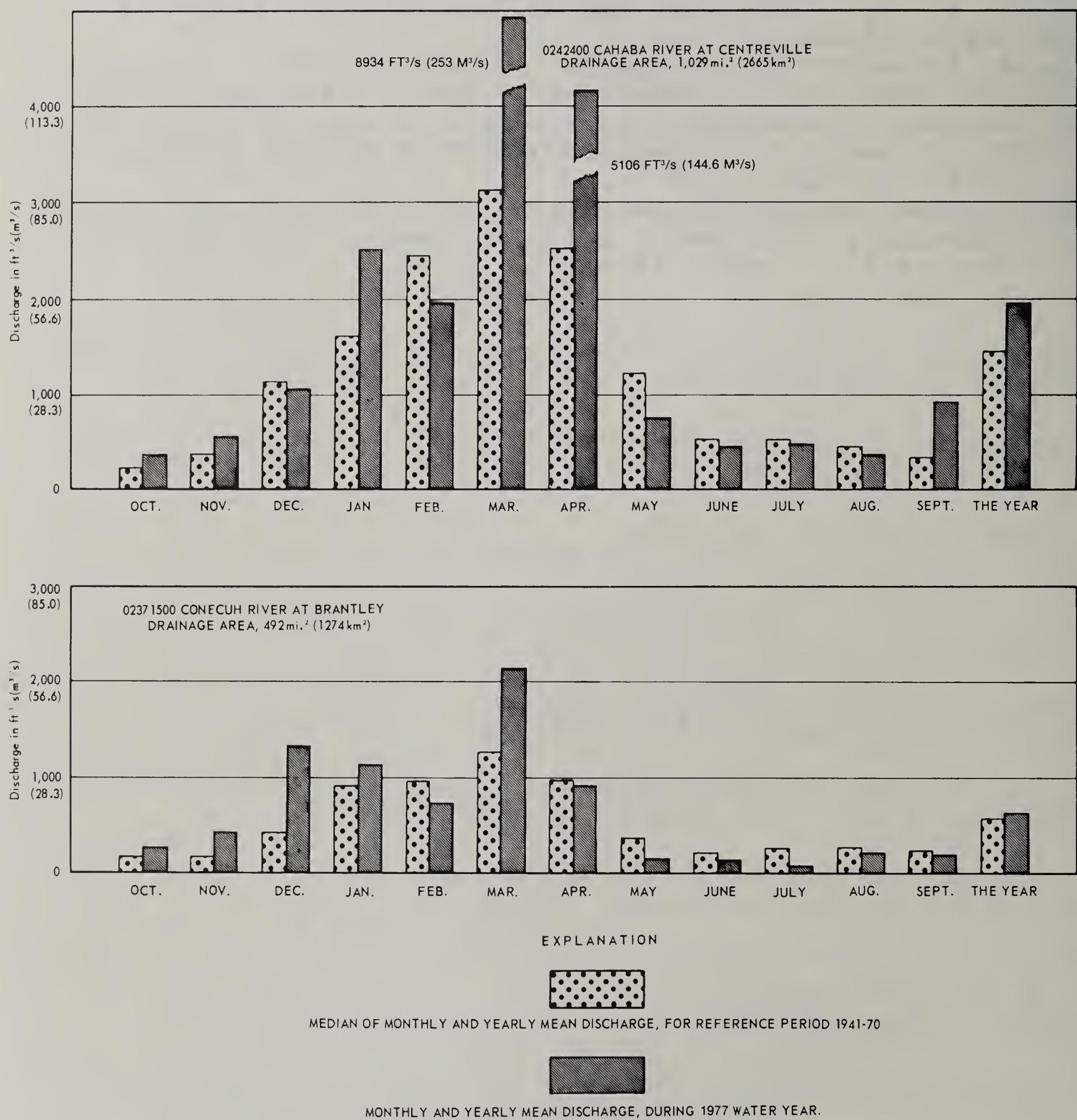

Figure 1.--Comparison of discharge at two long-term representative gaging stations during 1977 water year with median discharge for water years 1941-70.

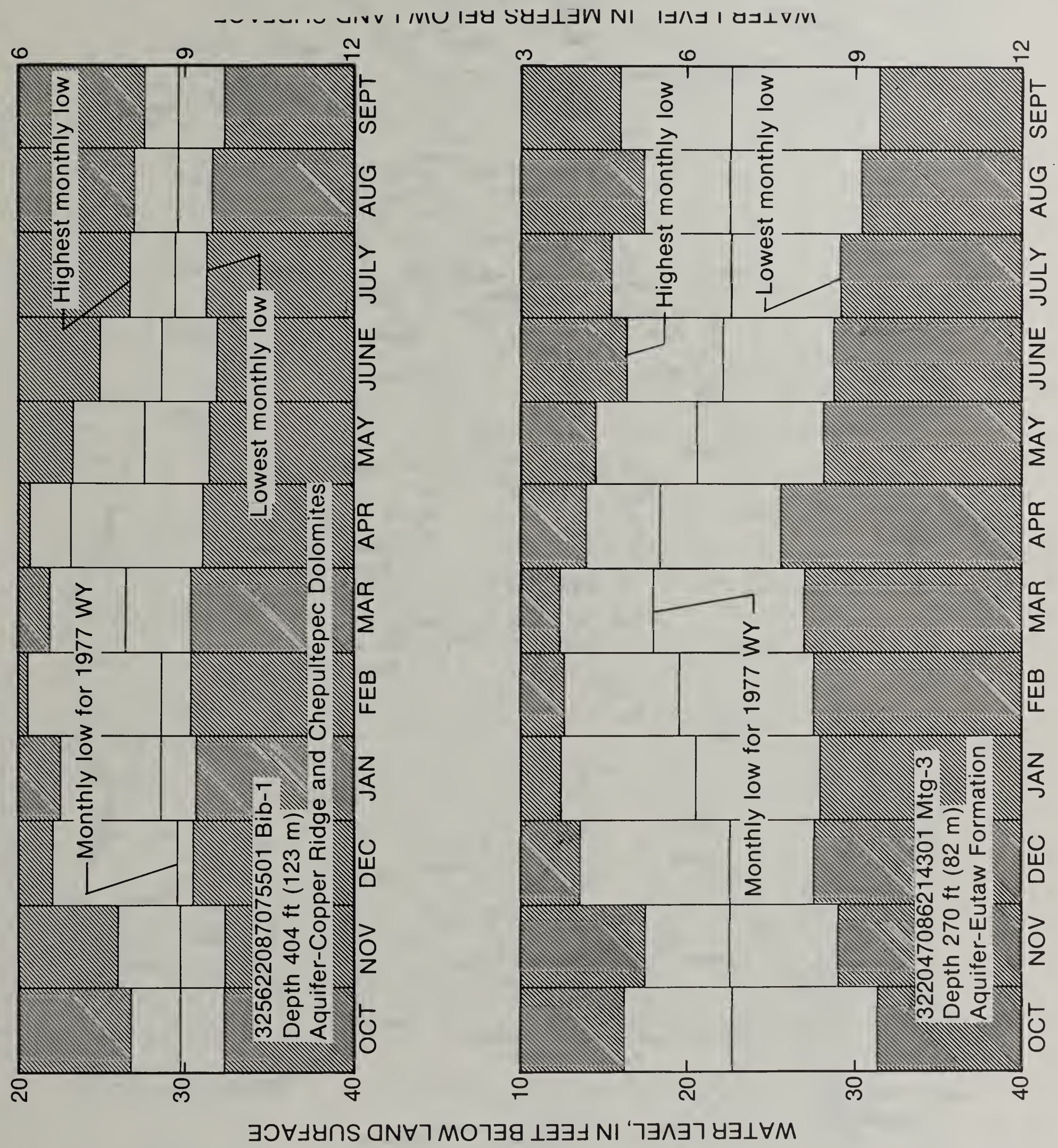

Figure 2.--Monthly low water levels during water year 1977 compared with highest and lowest monthly low water levels for period 1952-76 for two observation wells.

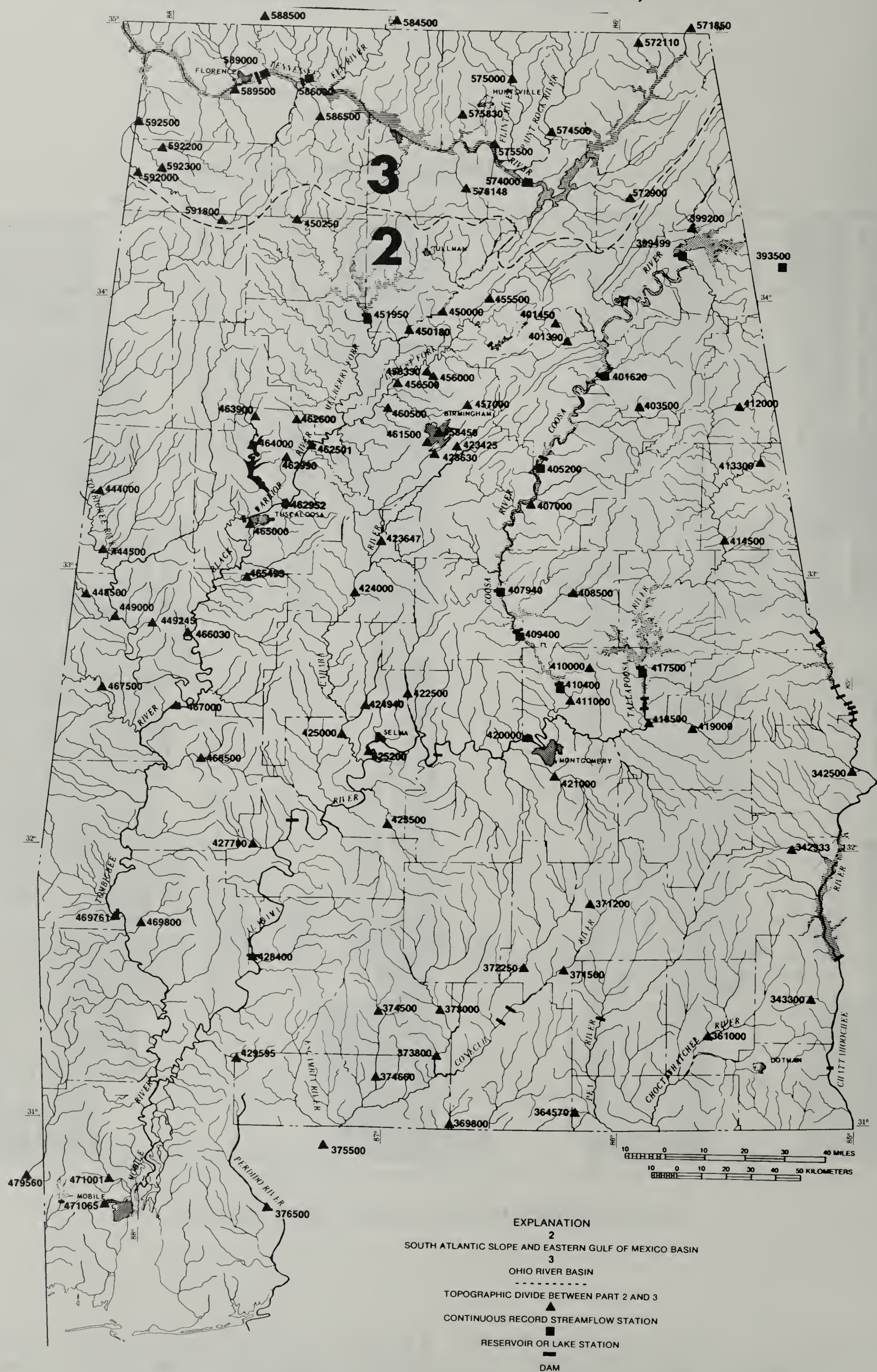

Figure 4.--Map of Alabama showing location of gaging stations.

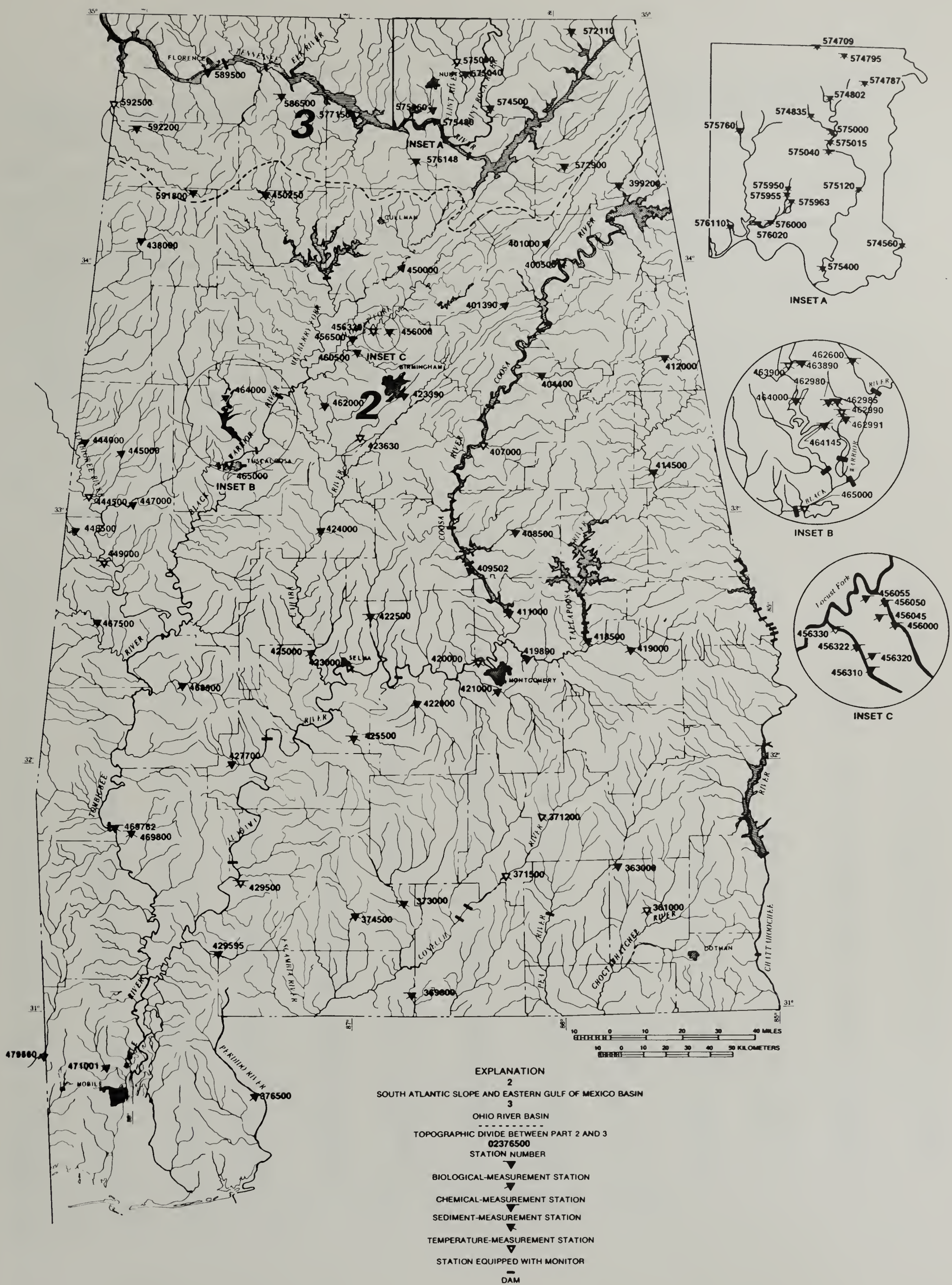

Figure 5.--Map of Alabama showing location of water-quality stations.

02342500 UCHEE CREEK NEAR FORT MITCHELL, AL

LOCATION.--Lat 32°19'00", long 85°00'54", in SW¼ sec. 3, T. 15 N., R. 30 E., Russell County, Hydrologic Unit 03130003, 50 ft (15 m) right of channel, 100 ft (30 m) upstream from bridge on State Highway 165, 2 mi (3 km) south of Fort Mitchell, 4.8 mi (7.7 km) downstream from Little Uchee Creek, and 5.3 mi (8.5 km) upstream from mouth.

DRAINAGE AREA.--325 mi^2 (842 km^2).

PERIOD OF RECORD.--October 1946 to current year. Monthly discharge only October 1946 to August 1953, published in WSP 1724.

GAGE.--Water-stage recorder. Datum of gage is 201.76 ft (61.496 m) above mean sea level. Prior to Sept. 1, 1953, at site 1,000 ft (305 m) upstream at same datum, and Sept. 1, 1953 to Aug. 15, 1965, at site 120 ft (37 m) downstream at same datum.

REMARKS.--Records good. Records of specific conductance and water temperature for the water year 1977 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--31 years, 447 ft^3/s (12.66 m^3/s), 18.68 in/yr (474 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,100 ft^3/s (1,560 m^3/s) Apr. 9, 1964, gage height, 26.45 ft (8.062 m); minimum, 6.4 ft^3/s (0.18 m^3/s) Sept. 8, Oct. 8, 1954, and Sept. 23, 1956.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,500 ft^3/s (127 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Oct. 8	1800	*8630	244	*11.66	3.554	Apr. 1	0100	4850	137	7.37	2.246
Nov. 29	1600	6700	190	9.44	2.877	Aug. 4	1400	5790	164	8.40	2.560

Minimum discharge, 15 ft^3/s (0.42 m^3/s) July 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	115	326	1440	414	369	524	3880	157	82	49	95	39
2	82	243	893	384	359	399	1970	147	105	61	98	34
3	62	210	691	696	349	359	1200	148	78	41	862	32
4	54	192	589	930	409	1500	848	127	62	34	4110	30
5	50	177	532	677	399	2340	1030	122	53	29	1710	37
6	48	164	503	507	349	1410	756	108	48	24	478	43
7	140	158	932	788	315	1260	585	95	52	22	266	181
8	5900	157	1190	775	300	916	506	168	47	18	189	193
9	3080	151	863	578	295	590	456	474	41	16	140	117
10	898	148	594	1390	285	484	415	324	39	17	102	85
11	449	157	536	1230	280	495	384	186	35	21	85	69
12	345	209	748	639	276	1220	361	142	33	18	66	58
13	291	263	1140	507	276	2280	339	115	31	16	58	50
14	255	227	972	1220	271	1460	315	97	29	27	53	50
15	227	647	856	1900	252	735	290	88	28	22	53	91
16	205	925	832	1140	239	551	267	80	26	19	48	164
17	328	551	657	645	226	464	249	74	26	18	43	243
18	500	391	561	513	222	425	232	67	25	26	102	399
19	334	340	517	456	230	404	221	61	31	26	276	271
20	409	337	519	429	234	453	208	58	39	22	252	205
21	485	368	623	424	230	1020	193	53	31	19	156	168
22	363	359	554	409	226	2120	195	50	26	18	117	121
23	301	326	384	389	217	1290	221	50	26	16	88	88
24	269	293	359	456	722	663	350	51	37	34	69	72
25	274	265	578	596	999	511	450	54	31	22	60	63
26	320	308	2290	484	530	442	288	63	27	19	55	66
27	301	594	2240	429	608	400	223	240	25	26	69	78
28	251	1810	964	462	795	382	197	158	24	41	63	102
29	196	5470	627	404	---	985	184	137	23	85	55	133
30	190	3270	507	354	---	1570	172	107	27	189	53	140
31	344	---	456	349	---	3190	---	94	---	148	46	---
TOTAL	17066	19036	25147	20574	10262	30842	16985	3895	1187	1143	9917	3422
MEAN	551	635	811	664	367	995	566	126	39.6	36.9	320	114
MAX	5900	5470	2290	1900	999	3190	3880	474	105	189	4110	399
MIN	48	148	359	349	217	359	172	50	23	16	43	30
CFSM	1.70	1.95	2.50	2.04	1.13	3.06	1.74	.39	.12	.11	.99	.35
IN.	1.95	2.18	2.88	2.35	1.17	3.53	1.94	.45	.14	.13	1.14	.39

CAL YR 1976 TOTAL 189576 MEAN 518 MAX 7490 MIN 19 CFSM 1.59 IN 21.70
WTR YR 1977 TOTAL 159476 MEAN 437 MAX 5900 MIN 16 CFSM 1.35 IN 18.25

02342933 SOUTH FORK COWIKEE CREEK NEAR BATESVILLE, AL

LOCATION.--Lat 32°01'03", long 85°17'45", in SE¼ sec. 14, T. 12 N., R. 27 E., Barbour County, Hydrologic Unit 03130003, on left bank at downstream side of bridge on county road, 0.1 mi (0.2 km) downstream from Bear Creek, 1.2 mi (1.9 km) northeast of Batesville, 11.2 mi (18.0 km) northwest of Eufaula, and 13.0 mi (20.9 km) upstream from mouth.

DRAINAGE AREA.--114 mi^2 (295 km^2).

PERIOD OF RECORD.--October 1963 to September 1971. Annual maximums, water years 1972-74. October 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 200 ft (61.0 m) from topographic map.

REMARKS.--Records fair. Records of specific conductance and water temperature for the water year 1977 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--11 years (water years 1964-1971, 1975-1977), 142 ft^3/s (4.02 m^3/s), 16.92 in/yr (430 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,100 ft^3/s (513 m^3/s) Feb. 17, 1975, gage height, 37.08 ft (11.302 m); minimum, 0.6 ft^3/s (0.017 m^3/s) Sept. 11, 12, 13, 14, 15, 16, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,510 ft^3/s (99.4 m^3/s) Mar. 22, gage height, 14.19 ft (4.325 m), no other peak above base of 3,500 ft^3/s (99 m^3/s); minimum discharge, 2.2 ft^3/s (0.062 m^3/s) July 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.2	28	125	74	111	146	182	21	11	5.6	5.5	16
2	8.7	22	134	68	95	109	153	19	9.9	8.0	13	15
3	8.1	20	114	672	103	91	122	18	7.5	5.0	252	14
4	7.8	19	103	392	212	1220	119	16	6.0	4.0	79	15
5	7.5	17	94	190	139	663	687	16	5.3	3.6	25	15
6	9.5	16	91	146	94	500	212	15	5.1	3.2	16	318
7	31	16	247	485	79	462	132	12	4.9	2.9	13	455
8	413	16	192	202	72	231	108	12	4.4	2.7	9.6	83
9	86	15	80	202	70	165	88	21	3.9	2.5	7.2	44
10	38	16	64	655	66	161	76	17	3.9	2.8	6.3	32
11	26	16	66	200	64	362	67	13	3.8	4.0	5.6	25
12	21	19	832	137	64	702	61	12	3.8	3.2	7.2	21
13	18	22	642	120	65	1260	56	11	3.4	2.6	6.3	54
14	16	21	232	1220	61	320	51	9.9	3.1	4.0	5.3	29
15	15	27	240	587	57	214	46	9.3	3.1	3.0	6.3	28
16	13	35	178	243	52	178	42	8.7	3.1	2.7	6.3	20
17	52	32	115	159	50	148	39	8.1	3.1	2.4	5.5	34
18	63	38	93	139	51	134	37	7.5	3.4	3.1	19	28
19	28	33	81	127	54	119	35	7.2	3.4	6.0	507	30
20	86	49	154	117	73	116	33	7.5	3.4	5.8	77	27
21	57	51	258	112	58	545	32	6.3	3.1	3.8	44	20
22	29	35	109	97	51	1970	35	6.3	3.1	2.9	31	16
23	23	30	92	90	49	380	41	4.1	3.2	2.7	25	13
24	21	28	82	139	930	239	42	3.9	4.7	2.7	22	13
25	23	27	295	159	267	202	35	3.9	4.0	2.4	20	12
26	34	64	1010	106	139	166	30	12	3.5	6.9	21	425
27	27	229	256	103	485	146	27	35	3.1	5.3	28	139
28	22	1130	166	111	299	141	25	20	2.9	5.5	23	41
29	19	1160	129	90	---	410	23	17	2.8	10	20	24
30	25	249	100	77	---	216	22	9.3	3.5	12	19	24
31	37	---	92	91	---	184	---	8.1	---	8.1	17	---
TOTAL	1273.8	3480	6466	7310	3910	11900	2658	387.1	129.4	139.4	1342.1	2030
MEAN	41.1	116	209	236	140	384	88.6	12.5	4.31	4.50	43.3	67.7
MAX	413	1160	1010	1220	930	1970	687	35	11	12	507	455
MIN	7.5	15	64	68	49	91	22	3.9	2.8	2.4	5.3	12
CFSM	.36	1.02	1.83	2.07	1.23	3.37	.78	.11	.04	.04	.38	.59
IN.	.42	1.14	2.11	2.39	1.28	3.88	.87	.13	.04	.05	.44	.66

CAL YR 1976 TOTAL 49209.6 MEAN 134 MAX 2500 MIN 6.0 CFSM 1.18 IN 16.06
WTR YR 1977 TOTAL 41025.8 MEAN 112 MAX 1970 MIN 2.4 CFSM .98 IN 13.39

02343300 ABBIE CREEK NEAR HALEBURG, AL

LOCATION.--Lat 31°28'24", long 85°09'45", in E½ sec. 19, T. 6 N., R. 29 E., Henry County, Hydrologic Unit 03130004, on right bank on downstream side of bridge on State Highway 95, 1.2 mi (1.9 km) upstream from Peterman Creek, 4.5 mi (7.2 km) northwest of Haleburg, 9 mi (14 km) southeast of Abbeville, and 7.8 mi (12.6 km) upstream from the mouth.

DRAINAGE AREA.--144 mi^2 (373 km^2).

PERIOD OF RECORD.--June 1958 to September 1971, October 1974 to current year.

REVISED RECORDS.--WSP 2106: 1969(M).

GAGE.--Water-stage recorder. Datum of gage is 145.74 ft (44.422 m) above mean sea level.

REMARKS.--Records fair. Records of specific conductance and water temperature for the water year 1977 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--16 years (water years 1959-71, 1975-77), 215 ft^3/s (6.098 m^3/s), 20.28 in/yr (515 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,590 ft^3/s (215 m^3/s) Mar. 31, 1970, gage height, 23.84 ft (7.266 m); minimum, 18 ft^3/s (0.51 m^3/s) Sept. 12, 16, 1968, gage height, 1.26 ft (0.384 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,250 ft^3/s (35 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Nov. 29	1200	*5300	148	*18.38	5.602	Mar. 23	0400	1770	47.0	8.31	2.533

Minimum discharge, 41 ft^3/s (1.16 m^3/s) June 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	127	174	849	271	281	337	388	167	74	49	109	69
2	99	152	642	258	267	267	342	159	72	47	88	64
3	85	137	523	574	287	247	307	155	67	66	165	67
4	78	130	453	510	337	687	285	151	60	70	212	73
5	75	123	390	434	289	825	607	148	59	58	141	74
6	243	118	360	364	263	990	417	143	56	54	95	96
7	542	120	450	633	251	969	310	137	52	53	73	126
8	745	117	500	482	242	820	270	129	51	70	72	115
9	377	114	380	464	236	600	248	138	49	69	71	84
10	218	116	330	876	229	470	227	138	47	66	68	73
11	162	120	417	738	228	470	221	123	45	61	77	73
12	136	122	446	544	226	700	217	114	45	57	83	69
13	125	118	461	410	228	900	212	108	43	50	70	69
14	118	115	429	723	221	1100	208	103	42	47	64	74
15	111	138	429	804	217	590	202	95	45	48	81	109
16	106	139	374	669	205	461	197	91	48	49	108	315
17	417	151	319	453	198	410	192	89	45	49	74	330
18	331	179	289	381	201	371	191	88	43	54	73	308
19	220	148	269	348	205	342	194	86	45	75	157	257
20	447	166	302	334	205	331	190	86	75	91	263	155
21	317	173	310	323	196	410	185	85	77	73	108	114
22	231	144	262	308	195	1180	197	86	61	67	79	94
23	178	127	247	300	196	1370	276	82	57	57	73	83
24	155	122	235	337	639	673	265	82	96	66	74	77
25	189	120	300	339	484	490	222	84	71	59	74	74
26	252	226	636	302	345	420	198	84	62	53	81	109
27	181	657	461	291	490	379	186	84	54	64	105	178
28	156	1720	376	295	446	348	180	89	50	168	87	141
29	138	4630	319	277	---	340	180	107	48	103	87	118
30	174	1680	277	263	---	339	176	90	51	123	75	105
31	228	---	289	279	---	414	---	79	---	140	73	---
TOTAL	6961	12296	12324	13584	7807	18250	7490	3400	1690	2156	3060	3693
MEAN	225	410	398	438	279	589	250	110	56.3	69.5	98.7	123
MAX	745	4630	849	876	639	1370	607	167	96	168	263	330
MIN	75	114	235	258	195	247	176	79	42	47	64	64
CFSM	1.56	2.85	2.76	3.04	1.94	4.09	1.74	.76	.39	.48	.69	.85
IN.	1.80	3.18	3.18	3.51	2.02	4.71	1.93	.88	.44	.56	.79	.95

CAL YR 1976 TOTAL 103347 MEAN 282 MAX 4630 MIN 63 CFSM 1.96 IN 26.70
WTR YR 1977 TOTAL 92711 MEAN 254 MAX 4630 MIN 42 CFSM 1.76 IN 23.95

CHOCTAWHATCHEE RIVER MAIN STEM

02361000 CHOCTAWHATCHEE RIVER NEAR NEWTON, AL

LOCATION.--Lat 31°20'30", long 85°36'43", in SE¼ sec. 2, T. 4 N., R. 24 E., Dale County, Hydrologic Unit 03140201, on left bank at downstream side of bridge on State Highway 123, 200 ft (61 m) downstream from abandoned milldam, 1,500 ft (457 m) upstream from Hurricane Creek, 0.8 mi (1.3 km) north of Newton, 1 mi (2 km) downstream from Atlantic Coast Line Railroad bridge, and at mile 133.0 (214.0 km).

DRAINAGE AREA.--683 mi^2 (1,769 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1906 to August 1908, October 1911 to August 1912 (gage heights only), November 1921 to September 1927, May 1935 to current year. Monthly discharge only for period January to April 1925, published in WSP 1304. Gage-height records collected near same site from 1931 to December 1971 are contained in reports of the National Weather Service.

REVISED RECORDS.--WSP 1384: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 138.56 ft (42.233 m) above mean sea level. See WSP 1304 or 1724 for history of changes prior to Sept. 9, 1938.

REMARKS.--Water-discharge record good. Prior to January 1941, moderate diurnal fluctuation at low flow caused by gristmills above station.

AVERAGE DISCHARGE.--47 years (water years 1923-27, 1936-77), 987 ft^3/s (27.95 m^3/s), 19.63 in/yr (499 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,800 ft^3/s (731 m^3/s) Jan. 20, 1936; maximum gage height, 29.6 ft (9.02 m) May 4, 1953; minimum daily, 61 ft^3/s (1.73 m^3/s) Sept. 8, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1900, 42 ft (12.8 m) present site and datum, Mar. 15, 1929, from information by State Highway Department (discharge not determined).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,000 ft^3/s (142 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Nov. 30	0400	*13700	388	*25.72	7.839	Mar. 13	0700	5140	146	13.61	4.148
Mar. 7	1300	5040	143	13.43	4.093	Mar. 23	1900	5540	157	14.34	4.371

Minimum discharge, 145 ft^3/s (4.11 m^3/s) June 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	625	1160	8420	1360	1110	1730	2350	495	437	198	927	370
2	555	994	4000	1240	1110	1410	1970	472	416	189	1110	320
3	485	919	2650	2220	1130	1230	1650	453	368	247	1370	310
4	430	795	2050	2360	1330	2080	1460	434	301	245	1230	316
5	396	687	1770	2200	1270	3530	1600	421	255	244	1160	359
6	1010	628	1600	2010	1190	4240	1480	405	231	322	909	387
7	2360	607	1980	2840	1110	4970	1290	390	210	284	628	699
8	2440	581	2120	2350	1040	4090	1210	375	194	245	507	859
9	2330	558	1900	2660	989	3050	1090	380	183	236	545	934
10	1750	545	1710	4190	942	2520	974	413	174	201	487	766
11	1190	545	1960	4130	916	2510	902	464	167	196	510	548
12	873	554	2090	4030	902	2520	849	424	161	203	373	410
13	714	554	2140	3920	898	4790	810	368	155	196	340	352
14	635	554	2030	3860	884	4790	779	338	150	180	307	320
15	589	628	2090	4740	870	3960	755	318	209	173	291	461
16	554	673	1930	4030	838	2770	725	305	187	203	305	796
17	1220	705	1680	2930	807	2100	686	293	169	214	312	1490
18	1470	800	1480	2350	793	1800	660	280	162	194	382	2190
19	1210	769	1340	1960	790	1630	641	272	164	225	814	1440
20	2030	835	1370	1860	793	1520	625	268	418	316	1990	1190
21	1920	913	1470	1670	783	1610	609	310	405	382	725	1020
22	1460	867	1360	1580	776	4800	606	312	459	338	490	759
23	1210	772	1280	1530	772	5320	803	303	359	272	408	545
24	1050	702	1220	1400	1820	4990	902	303	450	320	373	459
25	965	625	1270	1270	2200	3180	831	280	392	291	356	418
26	1090	989	2850	1190	1970	2190	762	276	291	233	340	424
27	942	2900	2460	1150	2060	1810	657	280	291	247	481	631
28	852	7330	2150	1530	2060	1610	594	299	245	772	560	1170
29	777	11600	1990	1440	---	1870	551	368	259	600	615	1010
30	853	13000	1620	1150	---	2570	518	408	223	752	587	755
31	1200	---	1470	1150	---	2530	---	424	---	993	495	---
TOTAL	35185	53789	65450	72300	32153	89720	29339	11131	8085	9711	19927	21708
MEAN	1135	1793	2111	2332	1148	2894	978	359	270	313	643	724
MAX	2440	13000	8420	4740	2200	5320	2350	495	459	993	1990	2190
MIN	396	545	1220	1150	772	1230	518	268	150	173	291	310
CFSM	1.66	2.63	3.09	3.41	1.68	4.24	1.43	.53	.40	.46	.94	1.06
IN.	1.92	2.93	3.56	3.94	1.75	4.89	1.60	.61	.44	.53	1.09	1.18

CAL YR 1976 TOTAL 444131 MEAN 1213 MAX 13000 MIN 196 CFSM 1.78 IN 24.19
WTR YR 1977 TOTAL 448498 MEAN 1229 MAX 13000 MIN 150 CFSM 1.80 IN 24.43

02361000 CHOCTAWHATCHEE RIVER NEAR NEWTON, AL--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.00	5.72	19.17	6.41	5.80	7.23	8.49	3.98	3.77	2.66	5.26	3.37
2	3.79	5.30	11.55	6.12	5.80	6.52	7.73	3.90	3.69	2.61	5.72	3.16
3	3.56	5.09	9.06	8.21	5.85	6.09	7.06	3.83	3.50	2.92	6.38	3.11
4	3.37	4.76	7.90	8.52	6.33	7.82	6.63	3.76	3.20	2.92	6.04	3.15
5	3.25	4.44	7.32	8.20	6.20	10.69	6.95	3.71	2.97	2.91	5.85	3.34
6	4.90	4.26	6.95	7.81	5.99	11.99	6.68	3.65	2.84	3.30	5.19	3.45
7	8.20	4.20	7.74	9.42	5.79	13.32	6.25	3.59	2.73	3.12	4.35	4.53
8	8.41	4.13	8.03	8.49	5.61	11.72	6.05	3.53	2.64	2.92	3.95	5.00
9	8.13	4.05	7.59	9.10	5.47	9.82	5.73	3.55	2.58	2.87	4.07	5.22
10	6.93	4.02	7.18	11.90	5.34	8.82	5.42	3.68	2.53	2.68	3.87	4.74
11	5.65	4.02	7.70	11.80	5.27	8.81	5.23	3.87	2.49	2.65	3.95	4.06
12	4.82	4.05	7.97	11.60	5.23	8.79	5.08	3.71	2.45	2.69	3.44	3.58
13	4.36	4.05	8.08	11.40	5.22	12.99	4.97	3.50	2.41	2.65	3.30	3.34
14	4.13	4.05	7.85	11.30	5.18	12.99	4.88	3.37	2.38	2.56	3.15	3.21
15	3.99	4.29	7.98	12.90	5.14	11.48	4.81	3.28	2.72	2.52	3.06	3.76
16	3.88	4.43	7.65	11.60	5.05	9.29	4.72	3.22	2.60	2.69	3.13	4.82
17	5.69	4.53	7.13	9.60	4.96	7.99	4.60	3.16	2.50	2.75	3.16	6.61
18	6.37	4.81	6.68	8.50	4.92	7.37	4.52	3.10	2.46	2.64	3.45	8.10
19	5.76	4.72	6.36	7.70	4.91	7.02	4.46	3.06	2.47	2.75	4.85	6.53
20	7.55	4.90	6.44	7.50	4.92	6.78	4.41	3.04	3.64	3.26	7.61	5.93
21	7.36	5.13	6.66	7.10	4.89	6.95	4.36	3.24	3.64	3.55	4.60	5.50
22	6.38	5.00	6.42	6.90	4.87	13.01	4.35	3.25	3.84	3.36	3.85	4.76
23	5.79	4.73	6.22	6.80	4.86	13.95	4.94	3.21	3.46	3.05	3.55	4.10
24	5.38	4.52	6.07	6.50	7.39	13.35	5.23	3.21	3.79	3.25	3.40	3.81
25	5.16	4.28	6.16	6.20	8.19	10.06	5.03	3.10	3.59	3.13	3.33	3.66
26	5.51	5.18	9.44	6.00	7.72	8.16	4.77	3.08	3.15	2.83	3.26	3.68
27	5.12	9.39	8.71	5.90	7.90	7.39	4.51	3.10	3.15	2.88	3.80	4.39
28	4.87	17.54	8.10	6.80	7.91	6.96	4.31	3.19	2.92	4.82	4.07	5.91
29	4.66	23.45	7.78	6.60	---	7.52	4.17	3.50	2.97	4.30	4.25	5.51
30	4.88	24.92	6.99	5.90	---	8.91	4.06	3.66	2.80	4.74	4.15	4.79
31	5.81	---	6.65	5.90	---	8.83	---	3.72	---	5.44	3.84	---
MEAN	5.41	6.47	7.92	8.34	5.81	9.44	5.35	3.44	3.00	3.14	4.25	4.50
MAX	8.41	24.92	19.17	12.90	8.19	13.95	8.49	3.98	3.84	5.44	7.61	8.10
MIN	3.25	4.02	6.07	5.90	4.86	6.09	4.06	3.04	2.38	2.52	3.06	3.11

02361000 CHOCTAWHATCHEE RIVER NEAR NEWTON, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1964 to current year.

PERIOD OF DAILY RECORD.--
CHEMICAL ANALYSES: March 1964 to September 1966.
SPECIFIC CONDUCTANCE: March 1964 to September 1966.
WATER TEMPERATURES: March 1964 to current year.

INSTRUMENTATION.--Temperature recorder since March 1964.

REMARKS.--Miscellaneous samples of chemical data published for water years 1969 and 1971.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 36.0°C July 31, 1968; minimum (water years 1964-70, 1972-77), -1.0°C Jan. 10, 1970.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 31.5°C June 13-14; minimum, 5.0°C on several days during January and February.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
MAR											
22...	5260	42	6.6	18.0	9.0	14	2	4.0	.8	3.1	.4
AUG											
30...	562	76	7.0	25.5	7.8	33	12	11	1.2	2.1	.2

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)
MAR											
22...	1.0	15	0	2.8	3.6	.0	4.3	29	412	.29	1.3
AUG											
30...	.9	26	0	3.6	4.0	.0	7.2	49	74.4	1.3	5.8

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
MAR										
22...	1	1	1	1	1200	ND	25	.2	20	10
AUG										
30...	ND	ND	ND	2	520	1	--	<.2	70	40

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT			
01...	626	60	22.5
NOV			
10...	545	62	10.5
DEC			
21...	1430	41	11.0
FEB			
02...	1040	44	5.0
MAR			
15...	3350	114	15.5
APR			
26...	708	63	18.0
JUN			
08...	180	62	23.0
JUL			
19...	220	83	26.0
AUG			
31...	464	76	26.0

02361000 CHOCTAWHATCHEE RIVER NEAR NEWTON, AL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	23.0	21.5	14.0	13.5	11.0	9.0	9.0	9.0	6.0	5.0	13.5	12.5
2	21.5	20.0	13.5	12.5	9.0	7.5	9.0	8.5	5.0	5.0	12.5	11.5
3	21.5	19.5	13.0	12.5	8.5	7.0	8.5	7.0	5.5	5.0	12.0	11.5
4	21.5	19.5	12.5	12.0	8.5	8.5	7.0	7.0	6.0	5.5	12.5	12.0
5	21.0	19.5	12.5	11.5	8.5	8.5	8.0	7.0	7.0	6.0	13.0	12.5
6	20.5	20.0	11.5	11.0	9.0	8.5	8.5	8.0	7.0	7.0	13.5	13.0
7	20.5	20.5	11.0	10.5	9.5	9.0	9.0	8.5	7.0	6.5	13.0	12.5
8	21.0	20.5	10.5	9.5	10.0	9.5	9.0	9.0	6.5	6.0	12.5	12.5
9	21.0	20.0	9.5	8.0	10.0	10.0	9.0	8.5	6.5	6.5	12.5	12.0
10	20.0	19.0	10.0	8.5	10.0	9.5	9.0	8.5	7.0	6.5	12.0	12.0
11	19.0	18.0	11.5	10.0	9.5	9.5	9.0	8.5	7.5	7.0	12.5	12.0
12	18.0	17.5	12.0	11.5	10.0	9.5	8.5	7.0	8.5	7.5	13.5	12.5
13	17.5	17.5	11.5	10.5	11.0	10.0	7.0	6.5	10.0	8.5	14.0	13.5
14	17.5	17.0	11.0	10.0	11.5	11.0	7.0	6.5	11.0	10.0	15.0	14.0
15	17.5	17.0	10.5	10.0	11.5	11.5	8.0	7.0	11.0	10.5	15.0	15.0
16	17.5	17.0	10.5	10.0	11.5	11.5	8.5	8.0	10.5	9.5	16.5	15.0
17	17.5	17.5	10.5	10.5	11.5	11.0	8.5	8.0	9.5	8.5	16.5	16.5
18	17.5	16.5	11.0	10.5	11.0	11.0	8.0	7.0	9.5	8.0	16.5	16.5
19	17.0	16.0	11.5	10.5	11.0	11.0	7.0	5.5	11.0	9.5	17.0	16.5
20	16.5	16.0	12.0	11.5	11.0	11.0	5.5	5.0	11.5	10.5	17.5	17.0
21	16.0	16.0	13.0	12.0	11.0	11.0	5.0	5.0	10.5	9.5	18.0	17.5
22	16.0	14.5	12.0	10.0	11.0	9.5	5.0	5.0	10.5	8.5	18.0	17.5
23	14.5	14.0	10.0	8.0	9.5	8.5	5.0	5.0	11.5	9.5	17.5	15.5
24	14.5	14.0	8.0	7.0	8.5	8.0	5.5	5.0	13.0	11.5	15.5	15.0
25	15.0	14.5	8.0	7.0	8.0	7.5	6.5	5.5	13.5	12.5	15.0	15.0
26	15.5	15.0	10.0	8.0	8.5	7.5	6.5	6.5	14.0	12.5	15.5	15.0
27	15.5	15.5	13.0	10.0	8.5	8.0	6.5	6.5	14.5	14.0	16.0	15.5
28	15.5	15.5	15.0	14.5	8.5	8.0	7.5	6.5	14.0	13.5	16.0	16.0
29	15.5	14.5	15.0	14.0	9.0	8.5	7.5	7.5	---	---	16.5	16.0
30	14.5	14.5	14.0	11.0	9.0	9.0	7.5	7.0	---	---	17.5	16.5
31	14.5	14.0	---	---	9.0	9.0	6.5	6.0	---	---	18.5	17.5
MONTH	23.0	14.0	15.0	7.0	11.5	7.0	9.0	5.0	14.5	5.0	18.5	11.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	18.5	18.5	21.0	18.5	26.0	24.0	31.0	26.5	26.5	25.0	28.0	25.5
2	18.5	18.5	22.0	19.5	26.0	23.0	30.5	26.5	26.0	25.0	27.0	25.0
3	19.5	18.5	22.5	20.0	26.5	23.0	29.5	25.5	25.0	24.5	25.5	25.0
4	20.0	19.5	23.0	20.0	26.5	23.0	30.0	26.0	25.5	24.0	25.5	24.5
5	20.0	20.0	24.0	21.0	27.5	24.0	30.0	25.5	26.5	24.5	25.5	24.5
6	20.0	19.0	24.5	21.5	28.5	24.5	29.0	26.0	26.5	25.5	26.0	24.5
7	19.0	18.0	25.5	22.0	28.5	25.0	30.0	26.5	28.0	26.0	26.0	25.0
8	18.0	17.0	25.5	23.0	27.0	22.5	28.5	27.5	29.0	26.0	26.0	25.0
9	17.5	17.0	25.0	23.0	27.0	21.5	28.0	27.0	28.0	25.5	26.0	24.5
10	17.5	17.5	23.5	20.5	27.5	22.5	27.5	26.5	27.5	25.5	26.0	24.5
11	18.0	17.5	23.0	20.5	29.0	23.5	27.0	26.0	27.5	24.5	26.5	25.0
12	18.0	17.5	23.0	20.0	30.0	25.0	27.5	26.5	28.0	25.5	26.5	25.0
13	18.5	18.0	23.0	19.5	31.5	25.5	28.0	27.0	29.0	25.5	27.0	25.0
14	19.0	18.0	23.0	19.5	31.5	25.0	28.0	27.5	29.0	26.0	26.5	25.0
15	19.0	18.0	23.5	19.5	29.5	25.5	27.5	26.5	28.5	26.5	25.5	24.5
16	19.5	18.5	23.5	20.5	29.5	25.5	27.5	26.5	29.0	26.0	25.0	24.0
17	20.0	18.5	24.5	21.0	30.0	25.0	27.5	27.0	28.5	26.0	24.5	23.5
18	20.0	19.0	24.5	21.0	31.0	25.5	27.5	26.5	27.0	25.5	24.0	23.5
19	20.5	18.5	24.5	21.5	30.0	26.0	26.5	26.0	26.5	25.0	25.0	23.5
20	20.5	19.0	25.0	22.0	26.5	24.5	27.0	25.5	25.0	24.5	25.0	24.0
21	21.5	19.5	24.5	22.0	26.5	24.0	28.0	25.5	26.0	24.5	25.0	24.5
22	21.5	20.5	25.0	22.0	26.5	24.5	29.0	26.0	26.0	25.5	25.0	24.0
23	22.0	20.5	25.5	22.0	27.5	25.0	29.0	26.5	27.0	25.0	25.0	23.5
24	21.5	20.5	24.5	22.5	27.0	25.0	29.0	27.0	26.5	25.5	24.5	23.0
25	21.0	19.5	24.0	22.0	27.5	25.5	28.5	26.0	27.0	25.0	25.5	23.5
26	19.5	18.0	24.0	21.0	29.5	26.0	28.0	26.5	27.5	25.0	25.5	24.0
27	18.5	16.5	23.5	21.5	30.0	26.5	29.0	26.0	26.5	24.5	24.5	23.5
28	19.0	16.0	22.5	22.0	30.5	26.5	26.0	25.5	27.0	25.0	24.5	23.0
29	20.0	17.0	25.0	22.0	28.5	25.5	27.0	25.0	27.0	25.5	24.0	23.0
30	20.5	18.0	25.5	23.0	30.0	25.5	26.0	25.5	27.0	25.5	23.5	23.0
31	---	---	26.0	23.5	---	---	25.5	25.0	27.5	25.5	---	---
MONTH	22.0	16.0	26.0	18.5	31.5	21.5	31.0	25.0	29.0	24.0	28.0	23.0

CHOCTAWHATCHEE RIVER MAIN STEM

02362000 (NWS 01-3255-07) CHOCTAWHATCHEE RIVER NEAR GENEVA, AL

LOCATION.--Lat 31°02', long 85°52', in SW¼ sec. 21, T. 1 N., R. 22 E., Geneva County, Hydrologic Unit 03140201, on downstream side of State Highway 52 bridge, 1 mi (2 km) northeast of Geneva, 1.4 mi (2.2 km) upstream from Pea River.

DRAINAGE AREA.--1,347 mi^2 (3,489 km^2).

PERIOD OF RECORD.--November 1928 to current year (gage heights only). October 1971 to current year in reports of Geological Survey. November 1928 to December 1971 collected by National Weather Service. See WSP 1304 for discharge records for June 1922 to November 1926 and gage heights and discharge measurements only from August to December 1904. January 1929 to December 1971, published in "Daily River Stages."

GAGE.--Nonrecording gage. Datum of gage is 62.80 ft (19.141 m) above mean sea level. Prior to Apr. 11, 1967, nonrecording gage located on highway bridge 30 ft (9.1 m) upstream from present site at same datum.

COOPERATION.--Records furnished by National Weather Service.

EXTREMES (AT 0700) FOR PERIOD OF RECORD.--Maximum gage height, 46.9 ft (14.30 m) Mar. 16, 1929; minimum gage height, 0.9 ft (0.27 m) Sept. 24, 1941.

EXTREMES (AT 0700) FOR CURRENT YEAR.--Maximum gage height, 23.7 ft (7.22 m) Dec. 1; minimum gage height, 2.2 ft (0.67 m) June 15.

REVISIONS.--The gage zero has been erroneously listed as 61.08 ft (18.617 m) above mean sea level in prior records and should be corrected to 62.80 ft (19.141 m) (corrected before publishing by USGS).

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 0700

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.70	7.10	23.70	9.20	7.70	10.30	14.20	4.80	4.40	3.40	5.90	5.50
2	4.50	6.90	20.80	8.90	7.70	9.90	14.30	4.20	4.40	4.40	7.00	3.10
3	4.90	6.10	17.20	9.90	7.50	8.90	14.20	4.60	4.30	3.30	8.70	3.60
4	3.70	5.70	---	10.10	7.80	8.40	9.80	4.60	5.00	3.60	9.70	4.00
5	3.60	5.30	17.70	11.80	7.50	9.00	9.40	4.40	3.10	3.50	10.30	4.30
6	3.50	4.90	11.40	11.20	8.10	10.60	10.10	4.20	3.50	3.20	10.40	4.70
7	7.20	---	10.10	11.80	7.70	13.90	9.40	4.30	3.40	3.70	7.40	5.20
8	9.50	4.80	11.40	13.00	7.20	16.30	8.40	4.20	3.10	3.50	5.80	7.20
9	10.20	4.60	10.20	12.50	6.90	18.00	8.40	4.20	3.10	3.40	6.10	7.50
10	9.80	4.60	10.40	12.20	6.70	14.80	7.70	4.20	3.60	3.40	5.20	6.50
11	7.40	4.50	9.80	12.20	6.60	13.40	8.10	4.30	3.10	3.50	4.80	6.60
12	5.70	4.40	10.90	13.10	6.60	12.50	6.80	4.40	2.90	3.40	4.70	4.80
13	5.50	4.40	13.20	12.50	6.60	13.50	6.60	4.20	2.80	3.20	4.30	4.30
14	4.70	4.50	11.80	11.70	6.50	15.20	6.30	3.80	2.80	3.50	3.90	5.00
15	4.40	4.60	11.50	12.60	6.40	16.90	6.10	3.10	2.20	2.90	3.70	3.80
16	4.50	6.00	11.90	14.70	6.30	17.00	6.90	3.70	3.20	3.10	3.80	4.40
17	5.70	5.30	11.90	14.80	6.10	14.30	5.90	3.70	3.30	4.00	3.70	6.20
18	6.80	5.50	10.30	13.50	7.30	12.40	5.70	3.60	---	3.90	3.80	10.00
19	7.60	5.90	9.90	10.60	7.00	12.10	5.60	3.50	4.20	3.30	4.60	10.30
20	7.50	5.60	9.80	10.60	6.90	11.00	5.60	3.50	5.20	3.40	5.80	10.90
21	9.00	5.80	8.80	9.70	6.90	9.80	5.50	3.50	3.90	3.60	7.20	8.60
22	8.40	5.90	9.90	9.10	5.80	9.90	5.40	3.10	4.40	3.40	6.30	8.00
23	8.10	5.20	8.90	8.70	5.90	11.50	7.00	3.70	4.80	3.40	5.20	5.80
24	6.70	6.00	8.20	7.80	6.80	15.10	8.00	3.40	5.10	3.40	4.80	6.00
25	6.50	4.20	7.90	8.60	8.80	16.10	8.00	3.70	5.00	3.20	4.50	4.50
26	6.90	4.70	9.40	8.80	10.10	13.70	6.20	3.60	3.60	3.30	4.80	4.30
27	7.90	7.60	11.10	8.60	11.00	10.70	5.80	3.80	3.70	4.00	6.00	4.40
28	6.20	12.70	12.90	8.50	10.90	12.10	5.20	3.70	3.50	3.30	4.80	4.80
29	5.60	16.80	12.60	8.40	---	9.90	4.90	3.60	3.50	5.80	4.10	5.70
30	6.30	21.80	10.70	9.00	---	11.70	---	4.40	4.40	5.60	4.70	---
31	6.10	---	9.90	8.90	---	14.20	---	4.30	---	5.10	4.50	---
MEAN	6.45	---	---	10.74	7.40	12.68	---	3.95	---	3.67	5.69	---
MAX	10.20	---	---	14.80	11.00	18.00	---	4.80	---	5.80	10.40	---
MIN	3.50	---	---	7.80	5.80	8.40	---	3.10	---	2.90	3.70	---

02363000 PEA RIVER NEAR ARITON, AL

LOCATION.--Lat 31°35'41", long 85°46'59", in SW¼ sec. 7, T. 7 N., R. 23 E., Dale County, Hydrologic Unit 03140201, on left bank at downstream side of abandoned bridge, and about 20 ft (6 m) upstream from bridge on U.S. Highway 231, 2.2 mi (3.5 km) downstream from Bryors Mill Creek, 2.8 mi (4.5 km) downstream from Atlantic Coast Line Railroad bridge, 3.5 mi (5.6 km) west of Ariton, and at mile 89.6 (144.2 km).

DRAINAGE AREA.--492 mi^2 (1,274 km^2).

PERIOD OF RECORD.--July 1972 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water years 1964, 1965, and 1969.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
MAR											
22...	1480	--	7.0	18.0	8.6	23	1	7.4	1.1	3.3	.3
AUG											
30...	146	75	7.3	27.0	8.3	25	6	8.2	1.0	2.3	.2

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)
MAR											
22...	1.0	27	0	2.6	3.4	.1	4.8	43	172	1.4	6.0
AUG											
30...	1.4	23	0	1.0	4.6	.0	8.9	39	15.4	.20	.88

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
MAR										
22...	1	ND	1	1	460	<1	54	.2	50	<5
AUG										
30...	1	2	ND	1	710	<1	56	<.2	110	30

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
NOV			
09...	243	59	7.0
JUN			
08...	78	86	26.5
JUL			
19...	40	99	27.0

02364000 (NWS 01-2577-07) PEA RIVER AT ELBA, AL

LOCATION.--Lat 31°24'55", long 86°03'45", in SE¼ sec. 8, T. 5 N., R. 20 E., Coffee County, Hydrologic Unit 03140202, on downstream side of bridge on U.S. Highway 84 in Elba, 0.2 mi (0.3 km) downstream from Whitewater Creek, and 4.5 mi (7.2 km) upstream from Elba Dam.

DRAINAGE AREA.--966 mi^2 (2,502 km^2), revised.

PERIOD OF RECORD.--February 1930 to current year (gage heights only). October 1971 to current year in reports of Geological Survey. February 1930 to December 1971 collected by National Weather Service. See WSP 1304 for record of discharge from May 1935 to September 1947 and gage heights for June to December 1906. February 1930 to December 1971, published in "Daily River Stages."

GAGE.--Nonrecording gage. Datum of gage is 159.24 ft (48.536 m) above mean sea level. Prior to June 19, 1934, at datum 0.1 ft (0.03 m) lower.

REMARKS.--Stage affected by operation of hydroelectric plant at Elba Dam.

COOPERATION.--Records furnished by National Weather Service.

EXTREMES (AT 0700) FOR PERIOD OF RECORD.--Maximum gage height, 31.4 ft (9.57 m) Apr. 5, 1960; minimum gage height, 0.5 ft (0.15 m) May 14, 15, 1932.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 1929 reached a stage of 43.5 ft (13.26 m) from reports of National Weather Service.

EXTREMES (AT 0700) FOR CURRENT YEAR.--Maximum gage height, 16.9 ft (5.15 m) Nov. 29; minimum gage height, 2.8 ft (0.85 m) June 10-16, 19, 20, and July 16, 17.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 0700

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.50	6.00	12.90	8.00	6.80	9.60	10.40	4.60	3.60	3.00	5.60	3.40
2	3.40	5.50	12.00	7.50	6.60	8.90	9.80	4.60	3.80	3.00	5.40	3.20
3	3.40	5.20	11.40	9.50	6.40	8.00	9.40	4.40	3.70	3.40	5.40	3.20
4	3.40	5.00	9.60	10.00	7.40	8.20	8.70	4.20	3.50	3.40	7.40	3.20
5	3.30	4.80	8.20	9.40	7.30	11.80	10.90	4.20	3.40	3.30	9.30	3.20
6	3.20	4.60	7.60	8.70	7.00	12.20	9.80	4.00	3.20	3.20	8.80	3.30
7	6.40	4.40	7.70	9.90	6.80	12.50	9.40	4.00	3.10	3.00	7.60	3.30
8	6.80	4.30	8.40	9.20	6.60	11.70	8.60	4.00	3.00	2.90	6.40	5.60
9	7.60	4.20	7.90	8.80	6.60	11.40	8.00	3.90	2.90	3.00	5.70	5.50
10	7.30	4.20	7.40	10.40	6.40	10.00	7.40	4.10	2.80	3.00	5.00	5.00
11	7.00	4.20	7.50	9.80	6.30	10.20	7.10	4.00	2.80	3.00	4.40	4.60
12	6.80	4.20	8.80	9.40	6.20	9.60	6.60	3.90	2.80	3.20	3.90	4.20
13	5.70	4.20	10.20	8.70	6.00	14.80	6.40	3.80	2.80	3.00	3.70	3.40
14	5.30	4.30	10.20	8.90	5.90	12.40	6.00	3.70	2.80	3.00	3.50	3.80
15	5.00	5.20	10.00	11.40	5.80	11.60	5.80	3.60	2.80	2.90	3.30	3.80
16	4.50	4.60	9.30	10.70	5.70	11.20	5.60	3.50	2.80	2.80	3.40	4.50
17	4.30	4.70	8.80	10.00	5.60	11.10	5.40	3.40	3.00	2.80	3.60	9.50
18	5.40	5.30	8.40	9.50	5.60	9.80	5.30	3.40	2.90	3.20	3.90	7.80
19	5.50	5.40	7.80	9.40	5.70	8.70	5.20	3.40	2.80	3.20	4.30	7.00
20	5.60	5.50	7.70	8.70	5.60	8.10	5.10	3.30	2.80	3.40	4.90	6.40
21	6.20	6.10	7.90	8.10	5.60	7.60	5.10	3.40	3.40	3.50	4.70	5.80
22	5.80	5.90	7.50	7.60	5.80	13.90	5.10	3.30	3.10	3.50	4.20	5.20
23	5.50	5.60	7.30	7.30	5.80	10.30	6.00	3.20	3.30	3.40	4.20	4.80
24	5.20	5.30	7.20	7.30	8.30	10.40	6.70	3.40	3.50	3.20	3.80	4.30
25	4.90	5.20	6.80	8.00	9.00	11.40	6.20	3.30	3.00	3.40	3.30	4.00
26	5.00	4.90	11.60	7.60	9.40	12.70	5.60	3.30	3.70	3.40	3.50	3.80
27	4.90	8.30	9.70	7.40	9.00	10.20	5.30	3.20	3.50	3.30	4.20	3.70
28	4.80	10.80	9.40	7.40	9.60	8.60	5.00	3.50	3.40	4.60	4.20	4.00
29	4.60	16.90	8.70	7.20	---	14.60	4.80	3.60	3.30	5.00	2.90	4.40
30	4.60	14.60	8.50	6.90	---	10.80	4.80	3.50	3.20	4.80	3.70	4.80
31	6.60	---	8.70	6.80	---	11.00	---	3.60	---	5.10	3.60	---
MEAN	5.21	5.98	8.87	8.69	6.74	10.75	6.85	3.72	3.16	3.38	4.77	4.62
MAX	7.60	16.90	12.90	11.40	9.60	14.80	10.90	4.60	3.80	5.10	9.30	9.50
MIN	3.20	4.20	6.80	6.80	5.60	7.60	4.80	3.20	2.80	2.80	2.90	3.20

02364570 PANTHER CREEK NEAR HACODA, AL

LOCATION.--Lat 31°07'15", long 86°11'13", in SW¼ sec. 19, T. 2 N., R. 19 E., Geneva County, Hydrologic Unit 03140202, on right bank 50 ft (15 m) upstream from county road bridge, about 5 mi (8 km) northwest of Hacoda.

DRAINAGE AREA.--26.5 mi^2 (68.7 km^2).

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 140 ft (42.7 m) from topographic map.

REMARKS.--Records fair. Records of specific conductance and water temperature for the water year 1977 are published under miscellaneous water-quality sites in this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,590 ft^3/s (102 m^3/s) Apr. 10, 1975, gage height, 15.32 ft (4.670 m); minimum, 2.7 ft^3/s (0.076 m^3/s) Aug. 24, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 450 ft^3/s (37.4 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Nov. 29	0400	546	15.5	9.60	2.926	Sept. 17	0100	463	13.1	9.00	2.743
Aug. 3	1300	*667	18.9	*10.22	3.115						

Minimum discharge, 3.2 ft^3/s (0.091 m^3/s) June 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	46	98	37	51	43	134	11	17	8.2	120	13
2	9.8	27	66	35	46	32	77	9.6	13	6.7	71	13
3	7.3	21	53	101	45	28	54	8.4	8.6	6.6	459	22
4	6.2	18	45	134	63	113	41	7.9	6.1	5.9	283	20
5	5.8	15	40	83	55	279	41	7.3	5.1	5.5	119	21
6	12	13	37	67	43	212	45	6.9	4.4	7.5	78	41
7	65	13	61	164	36	146	35	6.4	4.7	5.9	43	279
8	61	12	77	134	32	89	28	5.9	4.6	4.9	28	232
9	32	12	57	81	30	61	24	8.7	4.4	4.6	24	83
10	20	12	51	114	27	72	21	8.4	3.1	5.7	19	49
11	14	11	68	97	25	159	20	7.0	2.9	7.2	20	49
12	11	11	107	116	24	153	19	6.2	2.7	8.4	19	43
13	8.9	11	151	100	25	372	18	5.4	2.3	5.9	18	32
14	7.6	11	115	150	25	169	16	5.1	2.4	5.0	13	26
15	7.5	15	77	231	23	92	14	4.4	2.4	4.7	11	23
16	7.2	17	63	115	31	70	13	4.2	2.3	4.6	16	180
17	12	17	51	75	34	56	12	3.9	2.4	4.7	21	384
18	16	22	42	63	22	51	10	3.7	2.3	4.5	23	168
19	12	19	38	59	22	47	11	3.6	2.3	7.8	71	81
20	17	31	50	55	25	40	31	3.6	3.7	37	92	53
21	35	34	60	51	23	38	29	3.3	3.9	93	68	43
22	20	23	51	47	20	65	21	3.2	40	33	35	33
23	15	17	41	43	20	63	89	3.2	108	16	22	26
24	12	14	36	58	59	46	97	2.9	125	12	20	23
25	19	13	51	68	71	37	45	2.9	100	10	42	22
26	40	44	140	55	42	33	26	8.4	51	7.5	61	22
27	27	136	109	51	43	29	20	25	22	6.9	66	19
28	18	314	67	55	62	28	17	28	14	10	47	18
29	15	458	50	44	---	53	15	18	9.6	8.6	29	17
30	26	201	43	39	---	73	13	12	10	34	21	16
31	62	---	41	44	---	98	---	12	---	98	16	---
TOTAL	638.3	1608	2036	2566	1024	2847	1036	246.5	580.2	480.3	1975	2051
MEAN	20.6	53.6	65.7	82.8	36.6	91.8	34.5	7.95	19.3	15.5	63.7	68.4
MAX	65	458	151	231	71	372	134	28	125	98	459	384
MIN	5.8	11	36	35	20	28	10	2.9	2.3	4.5	11	13
CFSM	.78	2.02	2.48	3.13	1.38	3.46	1.30	.30	.73	.59	2.40	2.58
IN.	.90	2.26	2.86	3.60	1.44	4.00	1.45	.35	.81	.67	2.77	2.88

CAL YR 1976 TOTAL 20145.1 MEAN 55.0 MAX 748 MIN 2.8 CFSM 2.08 IN 28.28
WTR YR 1977 TOTAL 17088.3 MEAN 46.8 MAX 459 MIN 2.3 CFSM 1.77 IN 23.99

BLACKWATER RIVER MAIN STEM

02369800 BLACKWATER RIVER NEAR BRADLEY, AL
(HYDROLOGIC BENCH-MARK STATION)

LOCATION.--Lat 31°01'39", long 86°42'36", on line between secs. 24 and 25, T. 1 N., R. 13 E., Escambia County, Hydrologic Unit 03140104, in Conecuh National Forest, near left bank on downstream side of bridge on county road, and about 1 mi (2 km) east of Bradley.

DRAINAGE AREA.--86.8 mi^2 (225 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 121.87 ft (37.146 m) above mean sea level (unadjusted).

REMARKS.--Water-discharge records good.

AVERAGE DISCHARGE.--10 years, 152 ft^3/s (4.305 m^3/s), 23.78 in/yr (604 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, not determined, occurred June 4, 1970; gage height, 24.20 ft (7.376 m); maximum daily, 11,100 ft^3/s (314 m^3/s) June 4, 1970; minimum, 18 ft^3/s (0.51 m^3/s) Sept. 15, 16, 1968.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft^3/s (28.3 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 31	1500	*1760	49.8	*11.86	3.615	Aug. 20	1900	1010	28.6	8.51	2.594
Apr. 1	0100	1360	38.5	10.25	3.124						

Minimum discharge, 40 ft^3/s (1.14 m^3/s) June 14, gage height, 1.69 ft (0.515 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	170	363	121	137	140	1060	69	43	51	236	90
2	61	116	265	116	127	116	627	67	65	47	164	83
3	56	99	212	269	133	104	422	65	54	54	313	102
4	54	87	177	275	181	236	323	64	49	53	176	96
5	52	80	154	215	151	433	421	62	47	50	110	98
6	155	76	138	180	130	394	401	61	45	47	103	244
7	631	74	188	272	119	389	275	60	45	46	84	534
8	548	71	212	243	111	286	212	59	45	45	71	368
9	293	71	165	194	107	209	174	68	43	46	78	246
10	180	71	142	190	102	209	152	64	43	56	76	186
11	130	70	201	166	98	249	137	59	43	86	98	267
12	103	69	251	147	96	326	124	57	42	67	139	233
13	89	68	289	135	95	516	115	56	42	54	90	169
14	81	67	254	288	91	438	108	57	41	50	73	131
15	75	77	212	432	88	298	101	56	41	47	71	116
16	70	79	188	334	85	229	96	55	43	61	93	221
17	97	82	159	239	84	184	89	55	62	51	240	306
18	103	97	139	193	83	160	85	54	64	48	295	324
19	83	84	125	166	83	142	83	52	52	90	690	314
20	81	116	155	152	82	129	81	51	72	130	840	221
21	79	119	164	144	80	218	79	51	60	117	645	159
22	72	93	137	134	79	520	91	51	54	69	345	127
23	68	81	125	128	80	422	218	51	81	57	205	108
24	64	76	117	148	209	286	148	50	61	63	169	95
25	82	74	139	161	179	209	114	50	67	61	207	88
26	102	116	291	138	124	169	98	50	55	60	228	85
27	83	284	239	137	172	146	88	50	50	65	179	82
28	74	452	183	144	205	251	81	55	47	61	138	76
29	69	601	157	127	---	611	77	63	47	61	130	72
30	151	527	137	117	---	503	73	54	52	180	110	71
31	274	---	129	120	---	1340	---	50	---	314	107	---
TOTAL	4127	4147	5807	5825	3311	9862	6153	1766	1555	2287	6503	5312
MEAN	133	138	187	188	118	318	205	57.0	51.8	73.8	210	177
MAX	631	601	363	432	209	1340	1060	69	81	314	840	534
MIN	52	67	117	116	79	104	73	50	41	45	71	71
CFSM	1.53	1.59	2.15	2.17	1.36	3.66	2.36	.66	.60	.85	2.42	2.04
IN.	1.77	1.78	2.49	2.50	1.42	4.23	2.64	.76	.67	.98	2.79	2.28

CAL YR 1976 TOTAL 56668 MEAN 155 MAX 1390 MIN 49 CFSM 1.79 IN 24.29
WTR YR 1977 TOTAL 56655 MEAN 155 MAX 1340 MIN 41 CFSM 1.79 IN 24.28

BLACKWATER RIVER MAIN STEM

02369800 BLACKWATER RIVER NEAR BRADLEY, AL--Continued
(HYDROLOGIC BENCH-MARK STATION)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1976 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water years 1964, 1969, 1971-1976.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 to september 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
NOV											
17...	80	22	5.0	12.5	10.3	4	3	.6	.5	1.6	.4
DEC											
14...	249	24	4.3	11.0	10.8	4	3	.8	.4	1.9	.4
JAN											
27...	139	26	4.0	9.0	5.7	2	2	.5	.3	1.5	.4
MAR											
07...	394	25	4.1	12.0	10.8	3	3	.6	.4	2.0	.5
APR											
19...	84	21	5.1	18.0	8.6	4	3	1.2	.3	2.6	.6
JUN											
01...	48	21	5.5	22.0	9.2	5	2	.8	.4	2.0	.5
JUL											
22...	69	23	4.0	22.0	8.7	4	4	.9	.5	2.1	.4
AUG											
31...	104	--	4.9	23.0	8.2	10	9	3.2	.4	1.6	.2

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)
NOV											
17...	.3	2	0	1.8	2.8	.0	6.1	15	3.27	.16	.72
DEC											
14...	.2	1	0	1.4	3.4	.0	6.3	15	10.1	.08	.34
JAN											
27...	.1	0	0	1.2	2.8	.0	3.6	11	4.13	.23	1.0
MAR											
07...	.2	0	0	.8	3.6	.2	5.5	14	14.9	.11	.49
APR											
19...	.2	2	0	.0	3.2	.0	5.6	15	3.40	.13	.59
JUN											
01...	.3	3	0	.8	2.8	.0	2.6	11	1.43	.16	.72
JUL											
22...	.2	0	0	1.6	5.3	.0	7.9	19	3.54	.01	.04
AUG											
31...	.3	1	0	.0	4.8	.0	6.0	25	7.02	1.7	7.5

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
NOV										
17...	2	<1	ND	<1	120	1	32	<.2	<5	10
DEC										
14...	1	<1	ND	<1	210	3	41	.2	20	20
JAN										
27...	<1	<1	ND	1	130	1	32	<.2	10	10
MAR										
07...	1	2	ND	<1	190	2	52	<.2	20	30
APR										
19...	1	<1	ND	1	270	2	14	<.2	30	60
JUN										
01...	1	<1	ND	1	180	ND	4	.3	ND	10
JUL										
22...	1	<1	ND	1	170	3	35	<.2	20	10
AUG										
31...	2	<1	1	<1	420	1	53	.3	100	50

02371200 INDIAN CREEK NEAR TROY, AL

LOCATION.--Lat 31°48'50", long 86°07'15", in E½ sec. 26, T. 10 N., R. 19 E., Pike County, Hydrologic Unit 03140301, at left downstream wingwall of culvert on U.S. Highway 29, 3.5 mi (5.6 km) upstream from mouth, and 9 mi (14 km) west of Troy.

DRAINAGE AREA.--8.88 mi^2 (23.00 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1958 to September 1968. Annual maximums, water years 1969-70. October 1970 to current year.

REVISED RECORDS.--WSP 2106: 1960(M), 1960-65(P), 1962-65(M).

GAGE.--Water-stage recorder. Altitude of gage is 354 ft (108 m) by barometer. Prior to Oct. 1, 1961, at datum 1.00 ft (0.305 m) higher.

REMARKS.--Water-discharge record fair.

AVERAGE DISCHARGE.--17 years (water years 1959-68, 1971-77), 13.7 ft^3/s (0.388 m^3/s), 20.95 in/yr (532 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,950 ft^3/s (112 m^3/s) Feb. 17, 1975, gage height, 7.75 ft (2.362 m); minimum, 0.1 ft^3/s (0.003 m^3/s) Sept. 10, 1958, and Sept. 10-16, 1967.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 250 ft^3/s (7.08 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Nov. 28	1130	274	7.76	5.14	1.567	Mar. 21	2100	362	10.3	5.38	1.640
Mar. 4	0800	*425	12.0	*5.52	1.682						

Minimum discharge, 1.2 ft^3/s (0.034 m^3/s) June 14, Sept. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	7.1	18	13	14	17	29	7.6	2.5	2.4	10	1.5
2	4.4	6.5	16	13	14	16	23	7.2	2.5	2.2	13	1.4
3	4.1	6.2	14	37	17	15	20	7.0	2.1	2.2	12	1.4
4	3.7	5.9	13	19	17	123	20	6.8	1.9	2.2	8.1	1.5
5	3.5	5.6	13	16	14	30	35	6.5	1.9	2.0	6.3	2.0
6	7.7	5.6	13	19	13	34	20	6.1	1.8	1.9	5.1	4.2
7	20	5.7	30	22	13	26	18	5.8	2.2	2.0	4.3	3.9
8	10	5.6	15	16	13	21	17	5.5	1.9	16	3.7	2.2
9	7.3	5.5	13	21	13	19	15	5.6	1.7	8.5	3.3	1.9
10	6.2	5.5	13	19	12	26	14	5.1	1.6	11	3.0	1.8
11	5.1	5.6	13	15	12	22	13	4.8	1.5	6.0	3.2	1.7
12	4.8	6.5	32	15	12	66	13	4.6	1.5	3.9	2.8	2.1
13	4.6	5.9	23	15	12	36	13	4.5	1.5	3.2	2.5	5.6
14	4.5	10	16	66	12	24	12	4.2	1.5	2.8	2.5	3.0
15	4.1	13	18	25	12	22	11	4.0	1.9	3.4	2.4	14
16	4.1	8.0	14	20	11	20	11	3.7	1.7	3.0	2.4	33
17	9.1	10	13	18	11	18	11	3.6	1.5	5.8	2.1	17
18	5.4	8.3	13	18	11	18	11	3.4	1.9	10	2.5	7.6
19	4.6	10	13	18	17	17	13	3.7	2.5	4.9	5.1	6.3
20	8.5	14	24	17	16	17	12	4.2	2.7	4.0	3.4	6.0
21	5.4	9.3	15	16	13	71	11	4.3	2.1	3.2	2.9	4.6
22	4.8	7.9	13	15	12	78	11	3.4	6.8	2.6	2.5	4.0
23	4.5	7.5	13	15	13	26	14	3.6	14	11	2.5	3.7
24	4.4	7.5	12	22	69	22	11	3.7	6.8	16	2.9	3.4
25	8.2	7.4	39	16	19	20	10	3.6	4.5	4.8	3.6	3.3
26	7.3	32	30	15	16	18	9.4	3.3	3.4	3.9	2.9	4.2
27	5.3	33	18	17	45	17	8.9	3.3	2.8	3.9	3.6	3.6
28	4.8	145	16	15	20	68	8.7	3.6	2.5	6.1	2.2	3.0
29	4.6	52	15	14	---	56	8.1	3.2	2.8	17	2.0	2.7
30	20	23	14	14	---	31	7.9	2.8	2.9	23	1.8	3.4
31	9.6	---	14	15	---	37	---	2.5	---	14	1.7	---
TOTAL	205.4	475.1	536	596	473	1031	431.0	141.2	86.9	202.9	126.3	154.0
MEAN	6.63	15.8	17.3	19.2	16.9	33.3	14.4	4.55	2.90	6.55	4.07	5.13
MAX	20	145	39	66	69	123	35	7.6	14	23	13	33
MIN	3.5	5.5	12	13	11	15	7.9	2.5	1.5	1.9	1.7	1.4
CFSM	.75	1.78	1.95	2.16	1.90	3.75	1.62	.51	.33	.74	.46	.58
IN.	.86	1.99	2.25	2.50	1.98	4.32	1.81	.59	.36	.85	.53	.65

CAL YR 1976 TOTAL 6745.9 MEAN 18.4 MAX 238 MIN 3.5 CFSM 2.07 IN 28.26
WTR YR 1977 TOTAL 4458.8 MEAN 12.2 MAX 145 MIN 1.4 CFSM 1.37 IN 18.68

02371200 INDIAN CREEK NEAR TROY, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: December 1970 to current year.

INSTRUMENTATION.--Temperature recorder since December 1970.

REMARKS.--Miscellaneous samples of chemical data published for water years 1964, 1965, 1969, 1971, and 1972. No temperature data Nov. 11-30, Dec. 1-21, May 14-31, June 1-30, and July 1-13 because of recorder malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum (water years 1971-73, 1976), 28.0°C June 26, 1971; minimum (water years 1971-73, 1975-77), 4.0°C Feb. 10, 1971, Jan. 19-21, 1977.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 25.5°C Aug. 31; minimum, 4.0°C Jan. 19-21.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	21.5	19.5	14.0	13.0	---	---	9.0	7.5	5.5	5.0	11.0	10.0
2	20.0	18.5	13.5	12.0	---	---	7.5	6.5	5.5	5.0	10.5	10.0
3	19.5	18.5	13.0	11.5	---	---	7.0	6.5	6.0	5.5	11.0	10.5
4	19.5	18.5	13.0	11.5	---	---	8.0	7.0	6.5	5.5	12.5	11.0
5	20.0	18.5	12.0	10.5	---	---	9.0	8.0	7.0	6.5	12.5	12.0
6	20.0	19.5	10.5	9.0	---	---	9.0	8.5	7.0	6.5	12.0	11.5
7	20.0	20.0	11.5	9.5	---	---	9.0	8.5	6.5	6.0	12.0	11.5
8	20.0	19.0	11.5	10.0	---	---	8.5	7.5	6.0	6.0	11.5	10.5
9	19.0	17.5	10.0	8.5	---	---	8.5	7.5	6.5	6.0	11.5	10.5
10	17.5	16.0	12.0	10.0	---	---	9.0	8.0	7.0	6.5	11.5	11.0
11	16.5	15.0	---	---	---	---	8.0	6.5	7.5	7.0	12.5	11.5
12	16.5	15.0	---	---	---	---	6.5	6.0	8.5	7.5	13.5	12.5
13	16.5	14.5	---	---	---	---	7.0	6.0	9.5	8.5	13.5	12.5
14	17.0	15.5	---	---	---	---	8.0	7.0	9.5	9.0	13.5	12.5
15	17.0	15.5	---	---	---	---	8.5	8.0	9.5	9.0	13.5	13.0
16	17.5	16.0	---	---	---	---	8.5	7.5	9.0	8.0	15.0	13.5
17	17.5	17.0	---	---	---	---	7.5	6.0	8.0	7.5	15.0	14.0
18	17.0	15.5	---	---	---	---	6.0	5.0	8.5	7.5	15.5	14.5
19	16.0	14.5	---	---	---	---	5.0	4.0	9.5	8.5	16.5	15.5
20	16.0	15.5	---	---	---	---	4.5	4.0	10.0	9.0	16.5	16.0
21	15.5	14.0	---	---	---	---	4.5	4.0	9.5	8.5	16.5	15.5
22	14.0	12.5	---	---	8.5	7.0	5.0	4.5	9.0	8.0	16.0	15.0
23	14.0	12.5	---	---	7.5	7.0	6.0	5.0	10.0	9.0	15.0	13.5
24	15.0	13.5	---	---	7.5	7.0	6.5	5.5	11.0	10.0	14.0	13.0
25	16.0	15.0	---	---	7.5	6.5	7.0	6.5	11.5	10.5	14.0	13.0
26	16.0	15.5	---	---	8.5	7.5	6.5	6.0	12.0	11.0	14.5	13.5
27	15.5	14.0	---	---	8.5	8.0	7.5	6.0	12.5	12.5	15.0	14.0
28	14.5	13.5	---	---	9.0	8.5	8.5	7.0	12.5	11.0	15.5	15.0
29	13.5	12.0	---	---	9.5	9.0	8.0	6.5	---	---	16.0	15.0
30	14.5	13.0	---	---	9.5	8.5	6.5	5.5	---	---	17.0	16.0
31	14.5	14.0	---	---	9.5	9.0	5.5	5.0	---	---	17.0	16.5
MONTH	21.5	12.0	14.0	8.5	9.5	6.5	9.0	4.0	12.5	5.0	17.0	10.0

02371200 INDIAN CREEK NEAR TROY, AL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	17.0	16.0	17.0	16.5			---	---	23.5	23.0	25.0	24.0
2	17.5	16.5	17.5	17.0			---	---	23.5	23.0	25.0	24.0
3	18.0	17.0	17.5	17.0			---	---	23.5	23.0	24.5	24.0
4	18.5	18.0	18.0	17.5			---	---	23.0	22.5	25.0	24.0
5	18.5	17.0	18.0	17.5			---	---	23.5	22.5	24.5	24.0
6	16.5	15.0	18.5	18.0			---	---	24.0	23.0	24.5	24.0
7	15.5	14.5	19.0	18.5			---	---	24.0	23.0	24.0	23.5
8	16.0	15.0	19.5	19.0			---	---	24.0	23.0	24.0	23.5
9	16.0	15.5	20.0	19.0			---	---	24.5	23.5	24.0	23.0
10	16.0	15.0	19.5	18.5			---	---	24.5	23.5	24.0	23.5
11	16.0	15.0	19.0	18.0			---	---	24.0	23.0	25.0	23.5
12	16.0	15.0	18.5	17.5			---	---	24.0	23.0	24.5	23.5
13	16.5	15.5	18.5	17.5			---	---	24.5	23.5	24.5	23.5
14	16.5	15.5	---	18.5			24.5	23.5	24.5	23.5	24.0	23.0
15	16.5	15.5	---	---			24.0	23.5	25.0	24.0	24.0	23.0
16	16.5	15.5	---	---			24.5	23.0	25.0	24.0	23.5	23.0
17	16.5	16.0	---	---			24.5	23.5	25.0	24.0	23.0	22.5
18	16.5	16.0	---	---			24.5	23.5	25.0	24.0	23.0	22.5
19	16.5	16.0	---	---			23.5	23.0	24.5	24.0	23.0	22.5
20	17.0	16.5	---	---			24.0	23.0	24.0	24.0	23.5	22.5
21	17.0	16.5	---	---			24.0	23.0	24.0	23.5	23.5	22.5
22	17.0	17.0	---	---			24.5	23.5	24.5	23.5	23.0	22.0
23	17.5	17.0	---	---			24.5	24.0	24.5	23.5	23.0	21.5
24	17.5	17.0	---	---			24.5	24.0	24.5	24.0	22.5	22.0
25	17.5	16.5	---	---			24.0	23.5	24.5	24.0	23.0	22.0
26	16.5	15.5	---	---			24.0	23.5	24.5	24.0	23.0	22.5
27	16.0	15.0	---	---			24.0	23.5	24.5	23.5	23.0	22.5
28	16.0	15.5	---	---			24.0	23.5	25.0	24.0	23.5	22.5
29	16.5	16.0	---	---			24.0	23.5	25.0	24.0	23.5	22.5
30	17.0	16.5	---	---			24.0	23.5	25.0	24.0	22.5	22.0
31	---	---	---	---			23.5	23.0	25.5	24.0	---	---
MONTH	18.5	14.5	20.0	16.5			24.5	23.0	25.5	22.5	25.0	21.5

ESCAMBIA RIVER MAIN STEM

02371500 CONECUH RIVER AT BRANTLEY, AL

LOCATION.--Lat 31°34'24", long 86°15'06", in SE¼ sec. 16, T. 7 N., R. 18 E., Crenshaw County, Hydrologic Unit 03140301, on left bank 10 ft (3 m) downstream from bridge on U.S. Highway 331 and State Highway 52, 0.5 mi (0.8 km) downstream from Moody Mill Creek, 0.8 mi (1.3 km) southeast of Brantley, and at mile 112.3 (180.7 km).

DRAINAGE AREA.--492 mi^2 (1,274 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1937 to current year.

REVISED RECORDS.--WSP 1384: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 226.2 ft (68.95 m) above mean sea level (levels by Corps of Engineers). Prior to Nov. 1, 1938, nonrecording gage at same site and datum.

REMARKS.--Water-discharge record good.

AVERAGE DISCHARGE.--40 years, 683 ft^3/s (18.85 m^3/s), 19.34 in/yr (479 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,800 ft^3/s (561 m^3/s) Feb. 19, 1975, gage height, 24.51 ft (7.471 m); minimum, 22 ft^3/s (0.62 m^3/s) Sept. 14, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1900, about 26 ft (7.9 m), present site and datum, March 1929, from information by local residents; discharge not determined.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,990 ft^3/s (113 m^3/s) Mar. 25, gage height, 15.34 ft (4.676 m), no peak above base of 4,000 ft^3/s (113 m^3/s); minimum, 53 ft^3/s (1.50 m^3/s) Sept. 3, 4, 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	245	339	2010	1340	725	2170	2450	305	172	79	449	65
2	197	358	2920	1160	692	1930	2760	284	192	76	463	60
3	163	354	3190	1210	677	1800	2290	262	224	70	468	55
4	142	309	2590	1130	711	2190	1830	247	179	69	561	53
5	129	257	1910	1050	743	2670	1790	234	146	74	505	59
6	153	224	1430	1020	750	2620	1590	223	126	68	366	165
7	167	202	1230	1160	759	2630	1320	212	116	64	305	279
8	261	187	1060	1200	772	3280	1160	203	106	59	264	177
9	349	177	949	1230	747	2910	1080	197	100	57	238	164
10	391	169	889	1330	690	2420	1020	185	95	94	203	168
11	399	166	900	1270	622	2180	894	180	92	128	159	143
12	339	164	1060	1220	570	2020	754	172	87	105	128	114
13	266	166	1330	1140	541	2450	636	168	85	94	122	99
14	221	171	1410	1390	522	2190	566	166	83	76	115	94
15	189	184	1340	1710	505	1820	515	162	87	69	104	99
16	169	237	1240	1580	489	1850	471	155	89	102	97	147
17	160	305	1220	1430	473	2210	436	149	103	95	91	457
18	171	335	1210	1580	459	1930	409	143	96	88	86	446
19	220	357	1140	1870	447	1570	390	137	100	82	101	374
20	243	377	1080	1660	441	1310	385	134	112	89	156	284
21	268	443	1010	1360	473	1120	409	131	102	88	179	220
22	276	447	968	1180	502	1120	395	130	112	83	189	178
23	249	412	918	1000	499	1160	399	132	124	84	192	147
24	216	380	864	891	968	1450	476	128	131	80	168	124
25	199	342	884	882	1220	3390	507	126	131	78	116	109
26	189	359	1130	857	1270	3520	467	127	115	124	104	98
27	206	549	1100	830	1360	2650	447	144	112	101	101	99
28	215	1000	1100	840	1720	1910	419	160	99	94	95	105
29	199	1730	1110	822	---	2110	369	171	93	100	85	119
30	213	1910	1230	779	---	2110	332	156	86	212	78	128
31	276	---	1420	750	---	2250	---	148	---	339	71	---
TOTAL	7080	12610	41842	36871	20347	66940	26966	5471	3495	3021	6359	4829
MEAN	228	420	1350	1189	727	2159	899	176	117	97.5	205	161
MAX	399	1910	3190	1870	1720	3520	2760	305	224	339	561	457
MIN	129	164	864	750	441	1120	332	126	83	57	71	53
CFSM	.46	.85	2.74	2.42	1.48	4.39	1.83	.36	.24	.20	.42	.33
IN.	.54	.95	3.16	2.79	1.54	5.06	2.04	.41	.26	.23	.48	.37

CAL YR 1976 TOTAL 291800 MEAN 797 MAX 5280 MIN 94 CFSM 1.62 IN 22.06
WTR YR 1977 TOTAL 235831 MEAN 646 MAX 3520 MIN 53 CFSM 1.31 IN 17.83

ESCAMBIA RIVER MAIN STEM

02371500 CONECUH RIVER AT BRANTLEY, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1964 to current year.

PERIOD OF DAILY RECORD.--
CHEMICAL ANALYSES: March 1964 to September 1968.
SPECIFIC CONDUCTANCE: March 1964 to September 1968.
WATER TEMPERATURES: March 1964 to current year.

INSTRUMENTATION.--Temperature recorder since March 1964.

REMARKS.--Miscellaneous samples of chemical data published for water years 1969 and 1971.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES (water years 1964-70, 1972-77): Maximum, 30.5°C July 8, 1977; minimum, 0.5°C Jan. 19-20, 1977.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 30.5°C July 8; minimum, 0.5°C Jan. 19-20.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
MAR											
28...	1780	52	6.9	16.5	8.8	16	0	5.3	.7	3.2	.3
AUG											
30...	91	150	7.3	26.0	6.4	57	8	20	1.6	3.3	.2

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)
MAR											
28...	1.0	20	0	3.4	4.0	.1	3.7	33	159	.16	.73
AUG											
30...	1.2	60	0	.8	4.2	.1	9.6	82	20.1	2.7	12

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
MAR										
28...	1	1	0	1	740	1	34	.2	50	120
AUG										
30...	2	1	ND	2	640	ND	130	<.2	100	10

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT			
04...	143	82	20.5
NOV			
10...	169	80	15.0
DEC			
14...	1400	80	11.0
JAN			
25...	--	80	--
25...	927	75	5.0
MAR			
07...	2710	80	14.0

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
APR			
18...	379	80	14.0
JUN			
03...	228	90	25.0
JUL			
15...	66	--	26.0
AUG			
25...	116	105	25.5

02371500 CONECUH RIVER AT BRANTLEY, AL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	23.0	22.0	13.5	13.0	7.5	6.5	8.0	5.5	5.5	5.0	12.5	11.5
2	22.5	21.0	13.0	12.0	7.0	6.5	6.0	5.0	5.0	4.5	13.0	11.5
3	22.0	20.0	12.5	11.5	7.0	6.5	5.5	5.0	5.0	5.0	13.5	12.5
4	22.0	20.0	12.5	11.5	7.0	6.0	6.0	5.5	5.5	5.0	15.0	13.5
5	22.0	20.0	11.5	10.5	7.0	6.0	7.0	6.5	6.0	5.5	15.0	14.0
6	21.0	20.5	11.0	9.5	8.0	7.0	7.5	7.0	6.0	5.5	14.0	13.0
7	21.0	20.5	11.0	9.5	8.5	8.0	8.0	7.5	6.0	5.5	13.5	12.5
8	20.5	19.5	11.0	9.5	8.5	8.0	7.5	6.5	6.0	5.5	13.0	12.0
9	19.5	18.5	10.0	8.5	8.0	7.5	8.0	6.5	6.5	6.0	13.5	12.0
10	18.5	17.5	11.0	9.0	7.5	7.0	8.5	7.0	7.0	6.0	13.5	13.0
11	18.0	17.0	12.0	10.5	8.5	7.5	7.0	4.5	7.5	6.5	14.0	13.0
12	17.5	16.0	12.0	11.0	10.5	8.5	5.0	4.0	8.5	7.5	15.5	14.0
13	17.0	16.0	11.5	10.0	11.5	11.0	5.5	4.5	9.5	8.5	16.5	14.5
14	17.5	16.0	11.0	10.5	11.5	10.5	7.5	5.5	10.0	9.0	17.0	15.0
15	18.0	16.5	10.5	10.0	10.5	10.0	8.0	7.5	10.5	10.0	17.0	16.0
16	17.5	16.5	10.5	10.0	10.5	10.5	7.5	6.0	10.5	9.5	18.5	17.0
17	18.0	17.0	10.5	10.0	10.5	9.5	6.0	3.5	9.5	9.0	18.5	17.0
18	17.5	16.0	11.0	9.5	10.0	9.5	3.5	2.0	10.0	9.0	20.0	17.5
19	17.0	15.5	11.0	10.0	10.0	9.5	2.0	0.5	10.5	10.0	21.0	19.5
20	17.0	15.5	11.0	10.5	10.5	10.0	2.0	0.5	10.5	10.0	21.0	20.5
21	15.5	14.5	12.0	11.0	10.5	8.0	2.5	1.5	10.0	9.5	20.5	19.5
22	15.0	13.5	11.0	10.0	8.0	7.0	3.0	2.0	10.5	9.5	19.5	18.0
23	14.5	13.0	10.0	9.0	7.0	6.5	4.0	3.0	11.0	10.5	17.5	15.5
24	14.5	13.5	9.5	8.5	6.5	6.0	5.0	4.0	12.5	11.0	16.0	14.5
25	15.5	14.5	9.5	8.0	6.0	5.5	5.5	4.5	14.0	12.5	15.5	14.5
26	16.0	15.0	10.0	9.0	7.0	6.5	5.5	5.0	15.5	13.5	16.5	15.5
27	15.0	14.0	12.0	10.0	7.0	6.5	6.5	5.5	15.5	14.5	18.0	16.5
28	14.5	13.5	15.0	12.0	8.0	7.0	7.5	6.5	14.5	12.5	18.0	17.0
29	13.5	12.5	14.0	10.0	8.0	8.0	7.5	6.5	---	---	19.0	17.0
30	14.5	13.5	10.0	7.5	8.0	7.0	6.5	5.5	---	---	20.0	19.5
31	14.0	13.5	---	---	8.5	8.0	5.5	5.5	---	---	20.0	19.5
MONTH	23.0	12.5	15.0	7.5	11.5	5.5	8.5	0.5	15.5	4.5	21.0	11.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	20.0	19.0	20.5	19.0	25.0	24.0	29.5	27.0	26.5	25.0	28.0	26.0
2	21.0	20.0	21.0	19.5	25.0	23.5	30.0	27.5	26.0	25.5	27.5	26.0
3	22.5	21.0	21.5	20.0	25.5	23.5	29.5	27.0	25.5	25.5	26.5	25.5
4	22.5	22.0	22.0	20.0	26.5	23.5	29.5	27.0	25.5	24.5	27.0	25.5
5	22.5	19.5	23.0	20.5	27.0	24.5	29.0	26.5	25.0	24.5	26.0	25.5
6	19.0	17.0	22.5	21.0	27.5	25.0	30.0	27.5	25.5	24.5	26.5	24.0
7	17.5	16.5	23.0	21.5	27.0	25.0	30.0	27.5	26.5	25.5	25.5	23.5
8	18.0	17.5	23.0	22.0	26.0	23.5	30.5	28.0	26.5	26.0	25.5	24.5
9	18.5	18.0	23.0	22.0	25.5	22.5	29.5	27.0	26.5	26.0	25.5	25.0
10	18.0	17.5	22.5	21.5	26.5	23.5	28.0	26.5	27.0	26.5	25.5	25.0
11	18.5	17.5	22.5	21.0	27.5	24.5	27.5	26.0	26.5	26.0	26.0	25.0
12	19.0	18.0	22.0	21.0	28.5	25.5	28.0	25.5	27.0	26.5	26.0	25.0
13	19.5	18.5	22.0	20.5	29.0	26.0	29.0	26.5	27.0	26.5	26.0	25.5
14	20.0	18.5	22.0	20.5	29.0	26.0	29.5	27.0	27.0	26.5	25.5	25.0
15	20.0	18.5	22.0	20.5	29.0	26.0	28.5	27.0	27.5	26.5	25.5	25.0
16	20.5	18.5	22.5	21.0	29.0	26.5	28.5	26.0	27.0	26.0	25.5	25.0
17	20.5	19.0	23.0	21.5	28.5	26.5	29.0	26.5	27.5	25.5	25.0	24.0
18	20.0	19.5	23.0	21.5	28.5	26.0	27.5	26.0	27.0	25.5	24.5	24.0
19	20.5	19.0	23.5	22.0	29.0	26.0	26.0	25.5	26.5	26.0	25.0	24.0
20	20.5	19.5	24.0	22.5	27.0	25.0	27.5	25.5	26.0	25.5	25.0	24.0
21	21.0	20.0	24.0	22.5	28.5	25.5	28.0	25.5	26.0	25.0	25.0	24.5
22	20.5	20.5	24.0	23.0	28.0	27.0	29.0	26.5	26.0	25.5	25.0	24.0
23	21.5	20.0	24.0	22.5	28.0	25.5	29.5	27.0	26.0	25.5	24.5	23.5
24	21.5	20.5	23.5	22.5	27.0	24.5	28.5	27.0	26.0	25.5	24.5	23.5
25	20.5	19.5	23.5	23.0	27.5	25.0	29.0	27.0	27.0	25.5	25.0	23.5
26	20.0	18.5	23.5	22.5	28.5	26.5	28.5	27.0	27.0	26.0	25.0	24.5
27	19.0	17.5	23.0	22.0	29.0	27.0	28.5	27.0	27.0	25.5	25.0	24.0
28	19.5	17.5	23.0	22.0	29.0	27.0	27.5	26.5	27.0	26.0	25.5	24.0
29	20.0	18.0	23.5	22.0	28.5	27.5	28.0	26.5	27.5	26.0	25.0	24.0
30	20.5	18.5	24.5	23.0	29.0	26.0	26.5	25.0	27.5	26.0	24.5	23.5
31	---	---	25.0	23.5	---	---	26.5	25.0	28.0	26.0	---	---
MONTH	22.5	16.5	25.0	19.0	29.0	22.5	30.5	25.0	28.0	24.5	28.0	23.5

02372250 PATSALIGA CREEK NEAR BRANTLEY, AL

LOCATION.--Lat 31°35'46", long 86°24'20", in NE¼ sec. 12, T. 7 N., R. 16 E., Crenshaw County, Hydrologic Unit 03140302, near left bank on downstream side of bridge on State Highway 106, 3.0 mi (4.8 km) north of Leon, and 10.9 mi (17.5 km) northwest of Brantley.

DRAINAGE AREA.--439 mi^2 (1,137 km^2).

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 220 ft (67.1 m) from topographic map.

REMARKS.--Records fair. Records of specific conductance and water temperature for the water year 1977 are published under miscellaneous water-quality sites in this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,200 ft^3/s (430 m^3/s) Feb. 9, 1975, gage height, 22.21 ft (6.770 m); minimum daily, 65 ft^3/s (1.84 m^3/s) Oct. 15, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,000 ft^3/s (113 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 7	1400	4990	141	19.26	5.870	Apr. 1	0100	*5040	143	*19.29	5.880

Minimum daily discharge, 119 ft^3/s (3.37 m^3/s) Sept. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	198	406	2540	821	528	1730	4520	332	218	208	1570	143
2	170	360	3370	617	512	1450	3110	319	274	200	1050	134
3	153	276	2690	742	511	1240	2280	307	254	186	535	127
4	141	229	1990	985	577	1590	1810	300	204	175	577	122
5	134	205	1600	1010	640	2200	1500	295	188	164	431	121
6	135	191	1100	1060	650	2560	1320	288	179	155	420	136
7	179	180	900	1240	656	4460	1100	236	176	148	341	227
8	306	176	800	1330	614	3970	1010	274	173	143	272	243
9	372	174	730	1160	512	2570	956	266	170	165	224	210
10	325	172	700	1180	445	2010	788	259	165	324	199	177
11	256	172	720	1330	416	1730	650	249	161	300	190	159
12	208	175	840	1300	400	1560	581	241	157	245	197	147
13	184	183	1100	1210	392	1890	535	237	155	206	175	139
14	167	201	1210	1510	383	1980	502	232	152	185	162	142
15	157	234	1150	1910	369	2080	472	226	156	191	153	157
16	151	346	1190	1870	354	2390	450	221	152	241	146	206
17	161	447	1170	1860	338	2280	429	216	157	202	143	561
18	192	494	991	2180	325	1610	410	212	163	195	164	668
19	194	438	822	2170	321	994	396	206	161	188	189	538
20	180	384	742	1420	331	824	386	203	171	205	254	352
21	176	451	830	784	388	786	393	202	176	204	307	265
22	171	443	829	692	365	1310	401	203	171	198	240	224
23	158	398	781	646	338	1850	475	202	169	181	213	197
24	151	339	725	641	776	2360	560	200	218	234	185	181
25	150	287	646	715	1160	3130	532	202	223	197	169	170
26	179	275	977	693	1090	2380	507	200	235	206	162	164
27	230	458	1150	671	1360	1630	467	203	206	195	166	164
28	215	1060	1260	696	1650	1120	404	250	181	219	204	192
29	189	1840	1390	651	---	1930	368	272	164	470	183	250
30	187	2330	1590	589	---	2380	348	269	174	735	162	207
31	306	---	1440	549	---	3670	---	236	---	1350	151	---
TOTAL	6075	13324	37973	34232	16401	63664	27660	7558	5503	8215	9534	6723
MEAN	196	444	1225	1104	586	2054	922	244	183	265	308	224
MAX	372	2330	3370	2180	1650	4460	4520	332	274	1350	1570	668
MIN	134	172	646	549	321	786	348	200	152	143	143	121
CFSM	.45	1.01	2.78	2.51	1.33	4.67	2.10	.56	.42	.60	.70	.51
IN.	.51	1.13	3.21	2.89	1.39	5.38	2.34	.64	.47	.69	.81	.57

CAL YR 1976 TOTAL 315842 MEAN 863 MAX 7790 MIN 122 CFSM 1.96 IN 26.70
WTR YR 1977 TOTAL 236862 MEAN 649 MAX 4520 MIN 121 CFSM 1.48 IN 20.03

ESCAMBIA RIVER MAIN STEM

02372430 (NWS 01-6937-07) CONECUH RIVER AT RIVER FALLS, AL

LOCATION.--Lat 31°21', long 86°32', in NW¼ sec. 2, T. 4 N., R. 15 E., Covington County, Hydrologic Unit 03140301, on downstream handrail of State Highway 55 bridge, 0.8 mi (1.2 km) east of River Falls.

DRAINAGE AREA.--1,267 mi^2 (3,282 km^2), revised.

PERIOD OF RECORD.--November 1928 to current year (gage heights only). October 1971 to current year in reports of Geological Survey. November 1928 to December 1971 in reports of National Weather Service.

GAGE.--Nonrecording gage. Datum of gage is 120.80 ft (36.820 m) above mean sea level. Prior to June 23, 1934, nonrecording gage located on left bank 1,400 ft (427 m) upstream at datum 2.88 ft (0.878 m) higher. June 23, 1934, to Mar. 3, 1953, nonrecording gage on downstream side of bridge located 1,000 ft (305 m) upstream at datum 2.88 ft (0.878 m) higher.

REMARKS.--Some regulation at low flow by Point A Lake 1.0 mi (1.6 km) upstream and Gantt Reservoir 8 mi (13 km) upstream.

COOPERATION.--Records furnished by National Weather Service.

EXTREMES (AT 0700) FOR PERIOD OF RECORD.--Maximum gage height, 52.5 ft (16.00 m) Mar. 15, 1929; minimum gage height, -1.8 ft (-0.55 m) Sept. 11, 1938.

EXTREMES (AT 0700) FOR CURRENT YEAR.--Maximum gage height, 17.4 ft (5.30 m) Mar. 10; minimum gage height, 1.4 ft (0.43 m) Aug. 12.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 0700

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					---	11.40	15.70	1.60	1.60	1.50	5.40	1.60
2					---	11.00	15.00	1.60	1.60	1.50	7.10	1.60
3					---	11.40	14.80	1.60	1.60	1.50	8.60	1.60
4					---	10.90	13.60	1.60	1.60	1.50	8.30	1.60
5					---	13.50	13.00	1.60	1.60	1.50	8.40	1.60
6					---	14.90	12.40	1.60	1.60	1.50	3.30	1.60
7					---	15.40	10.00	1.60	1.60	1.50	3.20	1.60
8					---	14.80	8.10	1.60	1.60	1.50	2.80	1.60
9					---	16.00	7.70	1.60	1.60	1.50	1.60	1.60
10					---	17.40	7.10	1.60	1.60	1.60	1.60	1.60
11					3.40	15.80	6.60	1.60	1.60	1.50	1.60	1.60
12					4.90	14.10	6.70	1.60	1.60	1.50	1.40	1.60
13					4.40	13.70	6.00	1.50	1.50	1.50	1.50	1.60
14					3.60	14.70	4.60	1.50	1.50	1.50	1.50	1.60
15					2.80	13.40	3.50	1.50	1.50	1.50	1.50	1.60
16					6.00	13.30	3.00	1.50	1.50	1.50	1.50	1.60
17					5.90	13.20	2.40	1.50	1.50	1.50	1.50	6.90
18					6.00	11.40	6.40	1.50	1.50	1.50	1.50	6.80
19					1.90	10.70	3.20	1.50	1.50	1.50	1.50	6.80
20					3.80	10.40	1.70	1.50	1.50	1.60	1.60	6.90
21					4.20	8.20	1.60	1.50	1.50	1.60	1.60	6.80
22					5.20	11.00	1.60	1.60	1.60	1.60	1.60	4.90
23					2.60	9.90	2.90	1.60	1.60	1.60	1.60	2.90
24					6.80	9.40	3.10	1.60	1.60	1.60	1.70	1.60
25					8.40	9.60	4.80	1.50	1.50	1.60	1.60	1.60
26					10.00	9.10	5.20	1.50	1.50	1.60	1.60	1.60
27					9.20	15.60	3.10	1.50	1.50	1.70	1.60	1.60
28					7.40	15.10	2.50	1.50	1.50	1.70	1.60	1.60
29					---	16.00	1.80	1.50	1.50	1.80	1.60	1.60
30					---	14.20	1.60	1.50	1.50	1.90	1.60	1.60
31					---	16.90	---	1.50	---	5.40	1.60	---
MEAN					---	12.98	6.32	1.55	1.55	1.69	2.68	2.63
MAX					---	17.40	15.70	1.60	1.60	5.40	8.60	6.90
MIN					---	8.20	1.60	1.50	1.50	1.50	1.40	1.60

02373000 SEPULGA RIVER NEAR MCKENZIE, AL

LOCATION.--Lat 31°27'47", long 86°47'16", in SE¼ sec. 30, T. 6 N., R. 13 E., Conecuh County, Hydrologic Unit 03140303, on left bank 100 ft (30 m) downstream from bridge on U.S. Highway 31, 0.38 mi (0.61 km) upstream from Old Town Creek, 2.5 mi (4.0 km) upstream from Piney Woods Creek, 5.5 mi (8.8 km) downstream from Persimmon Creek, and 7 mi (11 km) southwest of McKenzie.

DRAINAGE AREA.--464 mi^2 (1,202 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1937 to September 1967. Annual maximums, water years 1968-70, and low-flow discharge measurement, water year 1967. October 1974 to current year.

GAGE.--Recording gage. Datum of gage is 155.96 ft (47.537 m) above mean sea level, unadjusted (levels by Corps of Engineers). Prior to Mar. 25, 1939, nonrecording gage, and Mar. 26, 1939, to July 29, 1960, recording gage at same site and datum.

REMARKS.--Water-discharge records fair.

AVERAGE DISCHARGE.--33 years (water years 1938-67, 1975-77), 678 ft^3/s (19.20 m^3/s), 19.83 in/yr (504 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,100 ft^3/s (796 m^3/s) Mar. 17, 1938; maximum gage height, 24.70 ft (7.528 m) Feb. 26, 1961; minimum discharge, 3.5 ft^3/s (0.099 m^3/s) Sept. 15, 28, 29, 30, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 1929 reached a stage of 33.0 ft (10.06 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,500 ft^3/s (99 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 16	2100	3590	102	8.28	2.524	Mar. 24	0500	3650	103	8.34	2.542
Mar. 7	0700	5200	147	10.42	3.176	Mar. 31	1500	*6740	191	12.52	3.816
Mar. 15	0200	*6740	191	*12.53	3.819						

Minimum discharge, 25 ft^3/s (0.71 m^3/s) July 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	104	2340	606	584	1740	6250	200	140	46	1180	112
2	73	113	1400	520	588	1300	5270	186	115	41	1200	97
3	57	135	1120	615	590	969	3660	172	84	38	714	83
4	49	104	721	968	655	1640	2490	165	69	32	691	80
5	43	81	446	1160	819	2900	1900	165	60	35	880	89
6	47	68	366	1010	858	4260	1440	152	55	32	817	111
7	49	62	440	1110	721	4970	1050	142	49	31	563	180
8	51	57	826	1500	587	3850	852	135	45	29	296	144
9	52	53	917	1340	508	2720	703	131	41	25	204	113
10	62	51	739	1380	465	2100	596	123	38	27	156	105
11	70	52	583	1610	431	1980	517	119	36	46	153	103
12	61	53	962	1350	407	2200	456	115	35	60	134	91
13	53	56	1480	1090	389	3350	407	115	32	134	113	79
14	49	61	1730	1500	376	5760	370	115	31	152	100	72
15	45	86	1440	2660	359	6360	337	105	29	105	88	71
16	44	109	1190	3400	336	4430	308	96	34	205	78	91
17	46	176	917	3100	312	2660	285	96	38	136	68	422
18	44	213	709	2270	295	1860	261	88	34	109	265	1240
19	42	168	566	1860	285	1200	247	85	33	150	1240	726
20	41	146	551	1260	280	949	233	81	34	165	1110	399
21	39	141	1060	871	272	994	223	79	36	157	600	361
22	38	160	1410	775	266	1740	321	73	37	131	329	233
23	37	163	1140	697	265	2980	1310	71	37	99	881	189
24	37	148	871	697	1030	3430	1090	69	89	128	1220	150
25	43	126	703	858	2270	2570	707	76	136	90	611	121
26	51	128	1390	917	2020	2130	562	90	129	71	349	108
27	51	185	2100	812	1600	1530	380	86	82	53	355	98
28	50	773	1780	757	1820	1400	295	86	59	71	313	90
29	53	2100	1470	884	---	3040	250	96	50	118	201	85
30	88	2660	1160	775	---	4710	220	88	56	142	153	80
31	98	---	769	643	---	6540	---	113	---	801	129	---
TOTAL	1630	8532	33296	38995	19388	88262	32990	3513	1743	3459	15191	5923
MEAN	52.6	284	1074	1258	692	2847	1100	113	58.1	112	490	197
MAX	98	2660	2340	3400	2270	6540	6250	200	140	801	1240	1240
MIN	37	51	366	520	265	949	220	69	29	25	68	71
CFSM	.11	.61	2.32	2.71	1.49	6.14	2.37	.24	.13	.24	1.06	.43
IN.	.13	.68	2.67	3.13	1.55	7.08	2.64	.28	.14	.28	1.22	.47

CAL YR 1976 TOTAL 358604 MEAN 980 MAX 11400 MIN 37 CFSM 2.11 IN 28.77
WTR YR 1977 TOTAL 252922 MEAN 693 MAX 6540 MIN 25 CFSM 1.49 IN 20.28

02373000 SEPULGA RIVER NEAR MCKENZIE, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1976 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water years 1964, 1965, 1969, 1975, 1976.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
NOV											
17...	172	74	7.1	9.0	11.1	19	0	5.3	1.3	6.8	.7
DEC											
14...	1790	--	6.9	10.5	11.3	17	1	4.7	1.2	3.8	.4
JAN											
27...	820	56	6.3	6.0	6.3	12	4	3.3	1.0	3.8	.5
MAR											
07...	5400	--	6.2	11.5	10.0	9	0	2.3	.7	3.2	.5
APR											
19...	231	--	7.2	18.0	8.3	20	0	6.1	1.2	5.0	.5
JUN											
01...	132	108	7.0	24.0	9.6	27	0	8.5	1.5	8.8	.7
JUL											
22...	136	73	5.8	26.5	7.3	14	0	3.8	1.1	6.5	.8
AUG											
31...	130	--	6.7	25.0	7.3	16	5	4.0	1.5	3.1	.3

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)
NOV											
17...	1.5	26	0	3.8	5.2	.1	9.2	47	21.8	.08	.35
DEC											
14...	1.4	20	0	6.8	3.2	.0	10	41	198	.07	.30
JAN											
27...	.8	10	0	6.0	3.2	.2	11	35	77.5	.25	1.1
MAR											
07...	1.2	13	0	3.6	3.8	.1	8.0	30	437	.16	.73
APR											
19...	.9	26	0	3.0	4.2	.0	12	46	28.7	.14	.61
JUN											
01...	1.3	44	0	5.8	5.8	.1	6.2	60	21.4	.08	.35
JUL											
22...	1.6	22	0	3.2	4.6	.0	9.0	41	15.1	.01	.05
AUG											
31...	.6	14	0	2.2	3.8	.0	10	41	14.4	1.7	7.5

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
NOV										
17...	<1	<1	ND	<1	330	2	10	<.2	40	10
DEC										
14...	1	<1	ND	<1	340	3	41	<.2	40	70
JAN										
27...	ND	<1	ND	1	200	2	36	<.2	40	<5
MAR										
07...	1	<1	ND	<1	460	1	77	<.2	20	30
APR										
19...	2	<1	ND	<1	730	<1	15	<.2	80	30
JUN										
01...	<1	<1	ND	1	590	1	7	.2	60	80
JUL										
22...	ND	<1	ND	1	430	1	41	<.2	70	10
AUG										
31...	1	1	1	<1	1100	1	75	.4	110	30

02373800 SEPULGA RIVER AT BROOKLYN, AL

LOCATION.--Lat 31°15'42", long 86°45'48", in SE¼SW¼ sec. 33, T. 4 N., R. 13 E., Conecuh County, Hydrologic Unit 03140303, near right bank at downstream side of bridge on county road 42, 0.2 mi (0.3 km) southeast of Brooklyn.

DRAINAGE AREA.--1,000 mi^2 (2,590 km^2), determined from aerial photographs.

PERIOD OF RECORD.--June 1975 to current year.

GAGE.--Water-stage recorder. Datum of gage is 86.40 ft (26.334 m) above mean sea level.

REMARKS.--Records good except those for periods of no gage height record, Apr. 27-May 31 and July 2-13, which are poor. Records of specific conductance and water temperature for the water year 1977 are published under miscellaneous water-quality sites in this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,200 ft^3/s (430 m^3/s) July 31, 1975, gage height, 36.97 ft (11.268 m); minimum, 165 ft^3/s (4.673 m^3/s) Sept. 23, 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of March 1929 reached a stage of about 53.0 ft (16.15 m) and the flood of November 1948, a stage of about 40.2 ft (12.25 m) from information by local residents.

EXTREMES FOR CURRENT PERIOD.--Peak discharges above base of 6,500 ft^3/s (184 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 8	0100	7680	217	22.41	6.831	Apr. 2	0100	*10200	289	*27.62	8.419
Mar. 16	0400	8260	234	23.72	7.230						

Minimum daily discharge, 160 ft^3/s (4.53 m^3/s) July 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	246	411	4340	1480	1300	3330	9830	600	355	265	2660	410
2	259	383	3410	1260	1220	2810	10000	550	424	252	2340	370
3	235	447	2930	1690	1260	2190	9370	520	390	230	2010	338
4	205	443	2840	1930	1480	3340	6830	500	295	200	1360	326
5	182	373	2020	2110	1500	5460	4910	480	247	210	1500	398
6	363	325	1410	2000	1550	6200	3650	450	229	200	1440	543
7	758	301	1310	2370	1470	7320	2610	430	221	180	1250	1140
8	341	295	1480	2490	1310	7470	1980	420	214	170	819	649
9	273	285	1660	2480	1170	6620	1660	400	210	160	612	473
10	279	280	1530	2610	1070	5620	1410	390	205	180	510	436
11	285	275	1570	2710	1000	5080	1230	370	199	210	468	418
12	270	314	2020	2600	962	4840	1100	360	195	250	443	394
13	244	314	3010	2200	940	6190	993	340	189	274	394	353
14	228	329	3100	3290	907	6500	902	320	183	390	362	348
15	214	366	2900	4740	876	7800	827	310	178	343	346	407
16	203	457	2470	4990	840	8070	763	300	178	329	402	591
17	232	503	2050	5350	797	6870	705	290	239	394	438	1390
18	241	714	1670	4520	770	4840	650	280	269	414	392	1930
19	216	740	1360	3870	738	3100	617	270	223	388	2240	1740
20	210	682	1300	3210	726	2140	589	260	209	528	2240	1360
21	208	648	1510	2190	704	1890	550	260	247	491	1290	1150
22	201	575	2040	1730	707	3060	1000	250	232	408	1010	892
23	198	585	1950	1500	728	3890	3200	250	241	355	1450	623
24	196	581	1680	1520	1570	4770	2800	250	306	397	2210	547
25	207	532	1520	1700	2700	4700	2000	250	477	478	2050	462
26	266	542	2670	1720	3290	4220	1400	260	414	344	1080	419
27	253	1000	3060	1640	3140	3640	900	260	330	301	821	400
28	235	2230	3190	1600	3210	3250	750	260	304	445	829	384
29	261	4300	2710	1580	---	6330	700	270	280	651	634	363
30	373	4300	2400	1520	---	6830	640	280	264	611	534	367
31	629	---	2020	1390	---	8730	---	300	---	1110	464	---
TOTAL	8511	23530	69130	75990	37935	157100	74566	10730	7947	11158	34598	19621
MEAN	275	784	2230	2451	1355	5068	2486	346	265	360	1116	654
MAX	758	4300	4340	5350	3290	8730	10000	600	477	1110	2660	1930
MIN	182	275	1300	1260	704	1890	550	250	178	160	346	326
CFSM	.28	.78	2.23	2.45	1.36	5.07	2.49	.35	.27	.36	1.12	.65
IN.	.32	.88	2.57	2.83	1.41	5.84	2.77	.40	.30	.42	1.29	.73

CAL YR 1976 TOTAL 684056 MEAN 1869 MAX 11100 MIN 165 CFSM 1.87 IN 25.45
WTR YR 1977 TOTAL 530816 MEAN 1454 MAX 10000 MIN 160 CFSM 1.45 IN 19.75

02374250 (NWS 01-1084-07) CONECUH RIVER AT BREWTON, AL

LOCATION.--Lat 31°04', long 87°05', in NE¼ sec. 9, T. 1 N., R. 10 E., Escambia County, Hydrologic Unit 03140304, on downstream side of bridge on State Highway 41, 1.0 mi (1.6 km) south of East Brewton, 2.7 mi (4.3 km) upstream from Murder Creek.

DRAINAGE AREA.--2,650 mi^2 (6,864 km^2), approximately.

PERIOD OF RECORD.--February 1929 to current year (gage heights only). October 1971 to current year in reports of Geological Survey. July 1930 to December 1971 collected by National Weather Service. July 1930 to December 1971 published in "Daily River Stages."

GAGE.--Nonrecording gage. Datum of gage is 53.10 ft (16.185 m) above mean sea level.

EXTREMES (AT 0700) FOR PERIOD OF RECORD.--Maximum gage height, 36.6 ft (11.16 m) Mar. 15, 1929; minimum gage height, -2.0 ft (-0.61 m) Sept. 11, 1963 and July 2, 1969.

EXTREMES (AT 0700) FOR CURRENT YEAR.--Maximum gage height, 14.3 ft (4.36 m) Apr. 2-4; minimum gage height, -0.90 ft (-0.27 m) June 11-12, July 6.

COOPERATION.--Records furnished by National Weather Service.

REVISIONS.--In reports of National Weather Service, the datum of the gage was erroneously listed as 57.2 ft (17.43 m). The datum of the gage has remained unchanged since station was established.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 0700

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-.20	---	9.80	5.60	4.10	7.40	14.20	2.20	-.30	-.40	2.50	.60
2	-.20	---	9.10	5.60	3.90	7.30	14.30	1.50	-.10	-.40	4.30	.50
3	-.20	---	8.60	6.00	3.70	7.10	14.30	1.40	.30	-.40	6.30	.30
4	-.40	---	8.10	6.40	4.30	7.80	14.30	1.20	.10	-.50	6.60	.20
5	-.40	---	7.90	6.40	4.40	8.80	13.50	1.00	.00	-.60	4.90	.40
6	-.20	---	7.60	6.40	4.40	10.00	13.00	.90	-.40	-.90	3.40	.60
7	2.74	---	7.40	6.10	4.40	11.80	9.30	1.00	-.40	-.70	3.00	1.60
8	2.40	---	5.40	6.40	4.30	12.40	8.20	1.00	-.50	-.60	2.70	2.60
9	.20	---	4.80	6.50	4.20	12.30	8.10	1.10	-.60	-.50	2.00	2.40
10	.20	---	4.70	6.60	3.80	12.30	6.20	.50	-.80	-.20	1.60	2.20
11	.20	---	5.00	6.80	3.50	12.20	5.70	.50	-.90	-.60	1.60	1.60
12	.20	---	5.90	6.90	2.90	12.00	5.30	.40	-.90	-.80	1.60	1.00
13	.20	---	7.00	7.00	2.90	12.30	5.00	.30	-.80	-.70	1.70	.30
14	.40	---	7.90	7.00	2.90	12.70	4.50	.20	-.60	-.60	1.10	.20
15	.40	---	7.60	9.00	2.80	12.70	3.20	.10	-.80	-.50	.20	.20
16	.30	-.20	7.30	9.70	2.50	12.60	2.80	.10	-.70	-.40	.30	.10
17	-.20	.00	7.30	10.30	2.30	12.70	2.40	.00	-.70	-.20	.50	1.50
18	-.30	.20	7.20	10.50	2.20	12.80	2.30	.00	-.60	-.10	.70	3.30
19	-.30	1.10	5.20	9.00	2.10	12.90	2.10	.00	-.60	.40	3.20	5.40
20	-.30	1.20	4.80	9.00	2.00	12.80	2.80	-.10	-.60	.30	6.60	5.00
21	-.30	1.00	4.90	8.80	2.00	9.90	2.70	-.10	-.30	.20	6.40	4.90
22	-.10	.90	5.30	7.30	1.90	7.40	2.10	-.20	-.40	.20	5.40	3.70
23	-.10	.80	5.60	6.90	1.90	8.80	2.20	-.30	-.60	.10	5.00	2.30
24	-.30	.60	5.00	6.30	2.40	8.90	7.00	-.60	-.60	.00	5.30	1.10
25	-.20	.50	5.90	5.40	5.60	9.40	5.40	-.70	-.10	.90	5.20	1.00
26	-.40	1.00	6.80	5.20	6.40	9.20	4.20	-.70	-.20	.00	3.80	.50
27	.00	1.40	7.20	5.10	7.80	9.70	3.40	-.70	-.20	.10	3.30	.40
28	-.30	3.60	7.20	4.90	7.90	10.00	3.10	-.30	-.30	.40	2.10	.20
29	---	6.40	6.20	5.00	---	10.10	2.90	-.50	-.20	1.60	1.80	.10
30	---	9.50	6.20	4.70	---	12.60	2.80	-.60	-.20	1.90	1.20	.10
31	---	---	6.00	4.30	---	13.50	---	-.60	---	2.40	---	---
MEAN	---	---	6.61	6.81	3.70	10.72	6.24	.26	-.43	-.02	---	1.48
MAX	---	---	9.80	10.50	7.90	13.50	14.30	2.20	.30	2.40	---	5.40
MIN	---	---	4.70	4.30	1.90	7.10	2.10	-.70	-.90	-.90	---	.10

02374500 MURDER CREEK NEAR EVERGREEN, AL

LOCATION.--Lat 31°25'06", long 86°59'12", in NW¼ sec. 8, T. 5 N., R. 11 E., Conecuh County, Hydrologic Unit 03140304, on left bank 30 ft (9 m) upstream from bridge on U.S. Highway 31, 1 mi (2 km) upstream from Louisville & Nashville Railroad bridge, and 2.5 mi (4.0 km) southwest of Evergreen.

DRAINAGE AREA.--170 mi^2 (440 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1937 to current year.

REVISED RECORDS.--WSP 1384: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 178.29 ft (54.343 m) above mean sea level (levels by Corps of Engineers). Prior to Mar. 25, 1939, nonrecording gage at same site and datum.

REMARKS.--Water-discharge records good.

AVERAGE DISCHARGE.--40 years, 281 ft^3/s (7.958 m^3/s), 22.45 in/yr (570 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,000 ft^3/s (623 m^3/s) Feb. 25, 1961, gage height, 16.13 ft (4.916 m); maximum gage height, 16.65 ft (5.075 m) Mar. 16, 1938; minimum discharge, 38 ft^3/s (1.08 m^3/s) Sept. 2, 3, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1900, 26.6 ft (8.11 m), present site and datum, March 1929, from information by local residents (discharge not determined).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,160 ft^3/s (61.2 m^3/s) Mar. 13, gage height, 10.50 ft (3.200 m), no other peak above base of 2,000 ft^3/s (56.6 m^3/s); minimum discharge, 109 ft^3/s (3.09 m^3/s) July 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	153	320	568	251	287	444	1010	262	185	141	835	129
2	151	198	340	240	281	308	818	250	194	129	462	122
3	146	171	281	342	282	273	662	250	187	153	309	121
4	144	161	255	402	332	705	538	256	175	171	273	123
5	143	156	240	370	333	1300	506	248	165	132	368	125
6	154	153	230	305	294	1000	475	238	160	124	436	144
7	208	153	337	431	260	666	430	235	173	119	257	219
8	198	154	446	440	246	519	391	228	184	116	198	199
9	176	152	380	375	241	414	371	227	163	114	167	194
10	165	151	270	408	238	494	350	223	157	209	156	214
11	156	155	285	405	234	755	327	214	155	237	204	181
12	149	163	448	339	237	805	316	208	148	282	207	162
13	145	198	536	286	233	2000	308	205	142	226	173	144
14	143	189	468	612	226	1390	294	200	141	153	151	139
15	141	241	374	1030	220	812	285	198	137	214	145	156
16	140	305	327	806	217	595	276	196	144	322	138	228
17	154	251	287	491	209	517	267	191	151	175	133	375
18	177	217	258	367	211	464	257	188	179	182	151	583
19	160	200	245	339	215	430	259	186	160	322	326	402
20	150	235	285	328	213	412	276	182	175	300	316	222
21	144	284	374	327	205	438	278	181	161	239	243	185
22	141	242	369	315	201	649	434	186	146	181	208	162
23	140	196	285	297	206	1080	1480	214	141	149	174	146
24	140	179	252	337	832	636	1010	251	147	136	196	137
25	184	174	284	401	907	446	536	305	251	136	196	133
26	219	194	525	362	564	404	361	236	249	133	192	130
27	198	308	549	315	446	375	318	220	167	130	227	131
28	165	816	420	326	508	602	297	254	140	188	228	153
29	156	1790	307	304	---	1750	281	283	130	283	170	144
30	208	1060	272	275	---	1240	269	228	140	348	149	134
31	349	---	264	272	---	1070	---	204	---	602	137	---
TOTAL	5197	9166	10761	12098	8878	22993	13680	6947	4947	6346	7525	5637
MEAN	168	306	347	390	317	742	456	224	165	205	243	188
MAX	349	1790	568	1030	907	2000	1480	305	251	602	835	583
MIN	140	151	230	240	201	273	257	181	130	114	133	121
CFSM	.99	1.80	2.04	2.29	1.87	4.37	2.68	1.32	.97	1.21	1.43	1.11
IN.	1.14	2.01	2.35	2.65	1.94	5.03	2.99	1.52	1.08	1.39	1.65	1.23

CAL YR 1976 TOTAL 142647 MEAN 390 MAX 3040 MIN 140 CFSM 2.29 IN 31.21
WTR YR 1977 TOTAL 114175 MEAN 313 MAX 2000 MIN 114 CFSM 1.84 IN 24.98

02374500 MURDER CREEK NEAR EVERGREEN, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1970 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water years 1964, 1965, and 1969.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
MAR											
23...	1080	30	6.8	14.0	9.8	--	--	--	--	--	--
AUG											
31...	121	54	6.7	24.0	7.9	15	0	4.7	.7	1.7	.2

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)
MAR											
23...	--	13	0	1.4	5.4	.0	5.6	--	--	.11	.49
AUG											
31...	.4	18	0	.0	3.2	.0	8.0	28	9.15	.00	.00

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
MAR										
23...	1	<1	ND	1	180	1	74	.2	50	10
AUG										
31...	--	--	--	--	490	--	140	--	110	20

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT			
01...	164	40	24.0
NOV			
11...	152	40	16.0
DEC			
16...	332	50	12.0
JAN			
25...	405	38	7.5
MAR			
10...	450	40	13.0

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
APR			
18...	267	61	19.0
JUN			
02...	195	55	23.0
JUL			
14...	158	--	26.0
AUG			
23...	171	59	24.5

02374660 MURDER CREEK AT KIRKLAND, AL

LOCATION.--Lat 31°11'30", long 87°01'35", in SE¼ sec. 26, T. 3 N., R. 10 E., Escambia County, Hydrologic Unit 03140304, on downstream side of wooden bridge crossing, 0.3 mi (0.5 km) northeast of Kirkland, and 5.0 mi (8.0 km) north of Brewton.

DRAINAGE AREA.--323 mi^2 (837 km^2).

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 95 ft (29.0 m) from topographic map.

REMARKS.--Records good except those for period of no gage height record, Aug. 31 to Sept. 30, which are poor. Records for specific conductance and water temperature for the water year 1977 are published under miscellaneous water-quality sites in this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,800 ft^3/s (816 m^3/s) Apr. 11, 1975, gage height, 24.50 ft (7.468 m); minimum, 150 ft^3/s (4.25 m^3/s) Sept. 20, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,660 ft^3/s (75.4 m^3/s) Mar. 31, gage height 7.80 ft (2.377 m), no peak above base of 3,500 ft^3/s (99.1 m^3/s); minimum discharge, 116 ft^3/s (3.29 m^3/s) June 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	187	444	1390	473	484	750	2250	362	189	160	1270	190
2	172	375	782	436	479	634	1640	342	222	145	882	170
3	162	246	542	666	490	523	1240	329	228	140	575	170
4	156	211	471	775	609	1130	971	338	181	160	448	170
5	152	195	423	694	589	1670	877	348	167	163	509	200
6	336	185	397	610	530	1720	800	335	162	137	614	240
7	397	182	503	753	471	1490	728	313	150	133	504	350
8	278	181	657	776	430	1030	662	299	150	127	327	300
9	239	180	629	705	413	833	605	292	157	126	258	290
10	211	181	523	736	409	862	560	287	145	132	234	340
11	195	181	489	698	394	1240	519	274	137	218	312	290
12	181	187	849	629	387	1390	485	261	135	247	376	250
13	170	196	1070	544	398	2180	463	259	134	285	284	220
14	165	231	919	1020	383	2270	450	250	126	219	229	210
15	162	250	791	1460	368	1830	430	226	123	178	203	250
16	158	329	684	1340	357	1190	406	225	121	264	248	400
17	170	375	590	1080	352	900	381	209	130	284	213	600
18	187	350	520	755	348	802	359	198	135	182	238	920
19	204	303	474	639	347	730	355	195	155	257	841	620
20	181	287	505	591	350	683	355	191	323	398	613	410
21	167	341	600	579	351	657	355	192	211	342	456	310
22	161	356	596	554	341	1100	605	192	165	254	323	220
23	158	306	543	525	334	1030	2400	192	177	191	288	170
24	158	245	465	564	639	1130	1910	202	153	167	362	150
25	168	233	483	696	1040	815	1300	239	176	159	340	140
26	226	260	984	638	1030	654	714	282	264	162	296	140
27	254	478	914	566	895	603	539	224	222	164	349	130
28	217	988	797	547	854	902	474	254	158	165	315	130
29	189	1490	654	522	---	2180	427	312	139	257	287	170
30	251	1690	539	483	---	2340	390	287	238	416	240	140
31	407	---	500	463	---	2540	---	219	---	1010	210	---
TOTAL	6419	11456	20283	21517	14072	37808	23650	8128	5173	7242	12644	8290
MEAN	207	382	654	694	503	1220	788	262	172	234	408	276
MAX	407	1690	1390	1460	1040	2540	2400	362	323	1010	1270	920
MIN	152	180	397	436	334	523	355	191	121	126	203	130
CFSM	.64	1.18	2.03	2.15	1.56	3.78	2.44	.81	.53	.72	1.26	.85
IN.	.74	1.32	2.34	2.48	1.62	4.35	2.72	.94	.60	.83	1.46	.95

CAL YR 1976 TOTAL 229229 MEAN 626 MAX 5880 MIN 152 CFSM 1.94 IN 26.40
WTR YR 1977 TOTAL 176682 MEAN 484 MAX 2540 MIN 121 CFSM 1.50 IN 20.35

ESCAMBIA RIVER MAIN STEM

02375500 ESCAMBIA RIVER NEAR CENTURY, FL

LOCATION.--Lat 30°57'54", long 87°14'03", in NW¼ sec. 10, T. 5 N., R. 30 W., Santa Rosa County, Hydrologic Unit 03140305, on left bank 16 ft (5 m) downstream from bridge on State Highway 4, 1.2 mi (1.9 km) downstream from Escambia Creek, 1.7 mi (2.7 km) east of Century, and 52 mi (83 km) above mouth.

DRAINAGE AREA.--3,817 mi^2 (9,886 km^2).

PERIOD OF RECORD.--October 1934 to current year.

REVISED RECORDS.--WSP 1384: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 28.34 ft (8.638 m) above mean sea level (Florida State Road Department bench mark). Prior to Jan. 13, 1940, nonrecording gage at same site and datum.

REMARKS.--Records good below 25,000 ft^3/s (708 c^3/s) and poor above. Some gage-height fluctuation during periods of low flow are attributed to regulation by power plants located at Point-A dam, located 85.4 mi (137.4 km) and Gantt Dam, located 90.1 mi (144.9 km) above the gaging station.

AVERAGE DISCHARGE.--43 years, 6,259 ft^3/s (177.2 m^3/s), 22.26 in/yr (565 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 92,300 ft^3/s (2.610 m^3/s) Apr. 12, 1975, gage height, 23.32 ft (7.108 m); minimum, 578 ft^3/s (16.4 m^3/s) Oct. 23, 1968; minimum gage height, 1.30 ft (0.396 m) Sept. 15, Oct. 20, 21, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1850 (from information by Corps of Engineers, Mobile District), 37.8 ft (11.52 m), March 1929, present datum (discharge not determined), from information by local residents.

EXTREMES FOR CURRENT YEAR.--Maximum discharge: 33,600 ft^3/s (952 m^3/s) Apr. 1, gage height, 17.90 ft (5.456 m); minimum, 1,300 ft^3/s (36.8 m^3/s) June 11, 12, 15, gage height, 3.14 ft (0.957 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1690	3540	16500	7130	5570	11100	33300	3680	1830	1940	8380	2700
2	1690	2830	15400	6670	5470	10200	33200	3460	2360	1660	9660	2400
3	1610	2320	13000	6970	5310	9990	31100	3170	2400	1510	9850	2240
4	1620	2230	10800	8370	5630	9800	29000	3190	2130	1500	8760	2130
5	1580	2150	10200	9100	6250	13300	27600	2990	1810	1540	7770	2060
6	1730	2070	9970	8580	5860	17200	24900	2890	1640	1420	8090	2910
7	2680	2040	9080	8480	5710	19800	20300	2840	1560	1380	7490	4400
8	3950	1890	8100	9180	5490	20800	15900	2680	1560	1430	5930	4520
9	2990	1700	7010	9140	5240	20800	11600	2880	1490	1390	4340	3880
10	2160	1970	6310	8960	4970	20600	8810	2820	1410	1380	3430	3150
11	1970	1820	6100	9510	4770	20800	7590	2430	1310	1360	4290	3080
12	1930	1630	7170	9490	4470	21800	6740	2340	1320	1500	5490	2840
13	1920	1630	9400	8560	4390	24500	6270	2290	1350	1520	4570	2490
14	2120	2010	11100	9180	4330	26700	5900	2170	1400	1560	3490	2330
15	1870	2250	11400	14500	4140	27000	5340	2100	1340	1590	2770	2350
16	1670	2220	10800	17000	3950	24900	4630	2070	1320	1610	2530	2550
17	1710	2250	9510	17300	3830	23000	4170	2040	1370	1680	2660	4550
18	1740	2220	8100	16600	3690	21800	4260	2130	1460	1660	3240	7720
19	1750	2510	7040	15400	3630	19600	3880	1840	1510	1680	5960	8020
20	1760	2830	6220	13000	3560	16800	3960	1820	1540	1950	10000	6940
21	1670	3040	6320	11400	3560	13200	3840	1800	1700	2010	9800	5360
22	1630	2980	6540	10500	3530	10600	4220	1720	1680	2040	6080	4340
23	1710	2640	6790	8780	3410	11100	10700	1730	1580	1750	5100	3680
24	1640	2580	6400	6930	3900	12600	14000	1730	1570	1570	5410	3060
25	1580	2460	6080	6850	6430	13000	12700	1690	1730	1500	7520	2700
26	1640	2580	7010	7190	8260	13000	7670	1730	2030	2050	7590	2490
27	1840	3040	9680	6840	9490	12900	5640	1710	2070	1900	5770	2240
28	1710	5590	10100	6550	10800	13200	4970	1760	1680	1960	4440	2240
29	1760	11000	9420	6410	---	16400	4430	1850	1500	2340	4130	2100
30	2050	15600	8400	6160	---	20900	3770	1930	2070	3160	3570	2130
31	3130	---	7550	5780	---	27700	---	2000	---	4510	3100	---
TOTAL	60500	95620	277500	296510	145640	545090	360390	71480	49720	56050	181210	103600
MEAN	1952	3187	8952	9565	5201	17580	12010	2306	1657	1808	5845	3453
MAX	3950	15600	16500	17300	10800	27700	33300	3680	2400	4510	10000	8020
MIN	1580	1630	6080	5780	3410	9800	3770	1690	1310	1360	2530	2060
CFSM	.51	.84	2.35	2.51	1.36	4.61	3.15	.60	.43	.47	1.53	.91
IN.	.59	.93	2.70	2.89	1.42	5.31	3.51	.70	.48	.55	1.77	1.01

CAL YR 1976 TOTAL 2971900 MEAN 8120 MAX 33700 MIN 1510 CFSM 2.13 IN 28.96
WTR YR 1977 TOTAL 2243310 MEAN 6146 MAX 33300 MIN 1310 CFSM 1.61 IN 21.86

PERDIDO RIVER MAIN STEM

02376500 PERDIDO RIVER AT BARRINEAU PARK, FL

LOCATION.--Lat 30°41'25", long 87°26'25", in NW¼ sec. 23, T. 4 S., R. 6 E., Baldwin County, AL, Hydrologic Unit 03140106, on right bank 25 ft (8 7 m) downstream from county highway bridge, 1,000 ft (300 m) downstream from Alligator Creek, 0.5 mi (0.8 km) southwest of Barrineau Park, and 27 mi (43 km) upstream from mouth.

DRAINAGE AREA.--394 mi^2 (1,020 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1941 to current year.

REVISED RECORDS.--WSP 1384: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 25.77 ft (7.855 m) above mean sea level. Prior to Aug. 22, 1949, nonrecording gage at same site and datum.

REMARKS.--Water-discharge records good below 10,000 ft^3/s (283 m^3/s) and poor above.

AVERAGE DISCHARGE.--36 years, 745 ft^3/s (21.10 m^3/s), 25.68 in/yr (652 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39,000 ft^3/s (1,100 m^3/s) Apr. 15, 1955, gage height, 23.94 ft (7.297 m) from rating curve extended about 8,500 ft^3/s (241 m^3/s), based on slope-area study made in 1955; minimum, 188 ft^3/s (5.32 m^3/s) Oct. 12-18, 1973; minimum gage height, 1.24 ft (0.378 m) Oct. 1-6, 15-17, 20-25, 28-31, Nov. 1-3, 1968.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 15, 1929, reached a stage of 25.7 ft (7.83 m), present datum, from information by local resident (discharge not determined).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,000 ft^3/s (113 m^3/s) and maximum (*): No peaks above base; maximum discharge, 3,140 ft^3/s (88.9 m^3/s) Aug. 7, gage height, 8.77 ft (2.673 m); minimum, 279 ft^3/s (7.90 m^3/s) June 13, gage height, 1.72 ft (0.524 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	361	844	2720	514	610	664	2600	375	359	285	1610	838
2	353	637	1800	497	610	566	2600	367	355	283	1650	701
3	347	523	981	817	610	514	2400	373	395	285	2510	617
4	343	461	720	1020	776	776	1310	405	363	299	2520	545
5	339	424	607	892	782	1440	844	409	327	379	1990	545
6	572	405	550	817	729	1590	686	391	331	319	2250	911
7	814	395	628	1050	677	1650	605	373	307	299	3000	1420
8	674	387	710	1080	605	1470	556	363	295	301	2090	1100
9	559	379	667	934	541	970	523	375	295	305	1400	1060
10	461	377	622	864	505	763	485	387	291	313	1020	876
11	415	375	732	782	485	729	461	379	295	405	1110	734
12	391	375	981	683	475	899	445	367	283	468	1130	713
13	377	375	1130	613	471	1580	433	355	279	381	1010	689
14	369	377	984	1320	461	1320	419	341	311	341	939	641
15	363	395	885	2060	450	1200	411	345	307	345	858	755
16	357	411	820	2040	440	1140	403	335	305	375	904	844
17	401	415	713	2180	433	782	399	337	359	371	1060	1230
18	429	440	622	1420	431	631	393	341	339	345	956	1710
19	417	450	556	864	429	562	389	339	311	371	928	2360
20	393	505	566	707	426	526	383	337	299	401	1190	1920
21	375	541	631	646	422	505	383	337	299	411	1300	1050
22	365	497	596	616	415	503	488	337	315	377	1290	726
23	357	454	553	590	415	505	931	335	291	351	1100	596
24	353	431	526	649	544	508	695	333	299	347	1160	520
25	361	413	566	692	720	494	622	333	634	389	1020	475
26	373	429	1060	628	634	485	566	331	475	343	1150	471
27	367	649	984	750	616	461	475	331	347	351	1220	443
28	359	1330	820	837	732	508	422	347	307	443	1090	450
29	353	2220	726	683	---	1010	397	383	295	468	911	466
30	817	2340	628	607	---	1190	383	395	293	491	911	457
31	1390	---	553	587	---	1820	---	391	---	640	918	---
TOTAL	14205	18254	25637	28439	15444	27761	22107	11147	9961	11482	42195	25863
MEAN	458	608	827	917	552	896	737	360	332	370	1361	862
MAX	1390	2340	2720	2180	782	1820	2600	409	634	640	3000	2360
MIN	339	375	526	497	415	461	383	331	279	283	858	443
CFSM	1.16	1.54	2.10	2.33	1.40	2.27	1.87	.91	.84	.94	3.45	2.19
IN.	1.34	1.72	2.42	2.69	1.46	2.62	2.09	1.05	.94	1.08	3.98	2.44

CAL YR 1976 TOTAL 289247 MEAN 790 MAX 7660 MIN 339 CFSM 2.01 IN 27.31
WTR YR 1977 TOTAL 252495 MEAN 692 MAX 3000 MIN 279 CFSM 1.76 IN 23.84

PERDIDO RIVER MAIN STEM

02376500 PERDIDO RIVER AT BARRINEAU PARK, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1972 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water years 1967 and 1969.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
OCT												
06...	675	24	4.9	22.0	50	25	7.8	88	1.1	3	3	.5
MAR												
22...	535	27	5.8	18.0	--	--	9.9	--	--	--	--	--
APR												
26...	580	23	4.7	18.0	30	20	8.2	85	1.2	5	5	1.0
AUG												
31...	825	29	4.8	25.0	--	--	7.0	--	--	7	6	1.8
SEP												
07...	1430	33	4.9	25.0	40	11	6.7	80	.9	5	5	1.0

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
OCT												
06...	.5	2.0	.5	.6	0	0	1.0	3.0	.1	5.9	18	14
MAR												
22...	--	--	--	--	6	0	1.6	3.6	.0	3.8	--	--
APR												
26...	.6	2.5	.5	.4	0	0	2.4	3.9	.1	7.1	18	18
AUG												
31...	.5	2.1	.4	.4	2	0	.4	4.0	.0	7.4	--	22
SEP												
07...	.5	3.2	.7	.6	0	0	1.0	4.2	.1	7.4	24	18

DATE	DISSOLVED SOLIDS (TONS PER DAY)	SUSPENDED SOLIDS (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)
OCT												
06...	32.8	50	.09	--	--	.03	.12	.02	.37	.39	.51	2.3
MAR												
22...	--	--	--	.29	1.3	--	--	--	--	--	--	--
APR												
26...	28.2	7	.08	--	--	.00	.08	.02	.23	.25	.33	1.5
AUG												
31...	49.0	--	--	.98	4.3	--	--	--	--	--	--	--
SEP												
07...	92.7	16	.07	--	--	.01	.08	.02	.37	.39	.47	2.1

PERDIDO RIVER MAIN STEM

02376500 PERDIDO RIVER AT BARRINEAU PARK, FL--Continued

WATER-QUALITY RECORDS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ALUM-INUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)
OCT											
06...	.06	.03	540	1	--	0	--	--	--	5	980
MAR											
22...	--	--	--	--	<1	--	1	1	<1	--	--
APR											
26...	.04	.03	250	0	--	0	--	--	--	0	720
AUG											
31...	--	--	--	--	2	--	1	ND	2	--	--
SEP											
07...	.02	.02	330	1	--	0	--	--	--	0	1000

DATE	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	SUS-PENDED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)
OCT											
06...	160	12	9	3	40	20	20	.0	--	2	50
MAR											
22...	450	--	--	ND	--	--	33	--	<.2	--	20
APR											
26...	120	13	1	12	50	10	40	.0	--	1	30
AUG											
31...	300	--	--	ND	--	--	60	--	.2	--	30
SEP											
07...	360	9	0	16	50	0	50	.0	--	5	0

DATE	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL CARBON (C) (MG/L)	TOTAL IN-ORGANIC CARBON (C) (MG/L)
OCT			
06...	20	8.0	.0
MAR			
22...	30	--	--
APR			
26...	20	14	7.0
AUG			
31...	80	--	--
SEP			
07...	0	12	1.0

02399200 LITTLE RIVER NEAR BLUE POND, AL

LOCATION.--Lat 34°17'20", long 85°40'50", in N½ sec. 3, T. 9 S., R. 9 E., Cherokee County, Hydrologic Unit 03150105, on right bank at downstream side of Southern Railroad bridge (formerly Tennessee, Alabama and Georgia Railroad), 1.8 mi (2.9 km) upstream from Wolf Creek, 4.2 mi (6.8 km) northeast of Blue Pond, and at mile 6.8 (10.9 km).

DRAINAGE AREA.--194 mi^2 (502 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1958 to September 1967, October 1970 to current year. October 1967 to September 1970 (flood hydrograph and low-flow partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 581.38 ft (177.205 m) above mean sea level. Prior to Aug. 1, 1959, nonrecording gage on highway bridge 0.2 mi (0.3 km) downstream and at datum 7.49 ft (2.283 m) lower.

REMARKS.--Water-discharge records good.

AVERAGE DISCHARGE.--15 years (1959-67, 1971-77), 500 ft^3/s (14.16 m^3/s), 35.00 in/yr (889 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,200 ft^3/s (912 m^3/s) Mar. 4, 1966, gage height, 14.45 ft (4.404 m); minimum, 0.2 ft^3/s (0.006 m^3/s) July 20, 21, 22, 1960; minimum gage height, 0.99 ft (0.302 m) July 21, 22, 1960.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 6,000 ft^3/s (170 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 13	1945	14900	422	11.23	3.423
Mar. 30	1615	*15400	436	*11.34	3.456
Apr. 4	2200	14400	408	11.08	3.377

Minimum discharge, 1.5 ft^3/s (0.042 m^3/s) July 17, gage height, 1.74 ft (0.530 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.6	19	192	501	224	1350	2050	160	120	4.9	6.4	11
2	6.2	61	143	401	207	1020	1460	150	90	4.9	6.0	10
3	5.9	102	113	374	227	826	5680	160	70	6.1	257	9.5
4	5.9	70	92	394	220	1370	6460	150	55	5.6	99	9.1
5	6.4	20	77	412	180	1530	8010	130	45	4.8	212	8.8
6	7.7	19	77	457	162	2470	2990	110	35	4.0	135	8.9
7	7.9	17	288	942	143	2040	1830	90	30	3.6	87	226
8	8.8	16	412	852	131	1410	1330	500	25	3.1	58	323
9	9.0	10	298	1500	127	1090	1090	300	23	2.7	38	186
10	8.0	8.7	236	3020	123	878	850	160	20	2.3	33	164
11	7.1	9.5	213	1650	120	747	760	110	18	2.5	29	125
12	6.7	11	916	1160	130	5970	540	80	16	3.5	58	85
13	6.2	13	1220	891	166	6920	431	65	15	3.5	168	71
14	6.0	17	814	1080	147	2630	374	55	15	3.0	50	137
15	5.7	21	878	1320	128	1730	328	45	13	2.4	38	175
16	5.6	25	891	1090	117	1350	284	40	11	2.1	33	1720
17	5.3	26	652	878	109	1080	253	35	10	1.8	38	1230
18	5.2	26	489	712	106	942	213	33	12	2.6	39	598
19	5.1	25	391	468	104	783	217	30	11	2.1	35	421
20	5.5	23	747	401	100	777	208	27	9.0	2.5	33	578
21	5.1	23	1200	344	92	807	188	26	11	3.7	31	418
22	4.9	22	884	300	88	1320	194	112	10	5.9	28	320
23	6.8	20	668	265	92	1090	646	450	8.0	6.6	26	267
24	8.3	20	522	288	2570	865	1070	250	6.0	6.2	40	237
25	12	18	585	311	1720	679	716	150	5.5	5.9	23	245
26	20	19	1420	293	1110	522	530	250	6.5	8.7	18	2000
27	20	23	982	306	2340	449	421	300	5.0	7.0	17	800
28	15	82	657	319	1990	426	360	200	4.5	6.5	15	500
29	13	518	453	298	---	858	250	150	3.7	5.7	13	350
30	15	306	325	265	---	8840	200	500	4.1	5.6	12	250
31	15	---	476	248	---	4300	---	200	---	5.6	11	---
TOTAL	265.9	1590.2	17311	21740	12973	57069	39933	5018	707.3	135.4	1686.4	11483.3
MEAN	8.58	53.0	558	701	463	1841	1331	162	23.6	4.37	54.4	383
MAX	20	518	1420	3020	2570	8840	8010	500	120	8.7	257	2000
MIN	4.9	8.7	77	248	88	426	188	26	3.7	1.8	6.0	8.8
CFSM	.04	.27	2.88	3.61	2.39	9.49	6.86	.84	.12	.02	.28	1.97
IN.	.05	.30	3.32	4.17	2.49	10.94	7.66	.96	.14	.03	.32	2.20

CAL YR 1976 TOTAL 162421.6 MEAN 444 MAX 8110 MIN 4.9 CFSM 2.29 IN 31.14
WTR YR 1977 TOTAL 169912.5 MEAN 466 MAX 8840 MIN 1.8 CFSM 2.40 IN 32.58

02399200 LITTLE RIVER NEAR BLUE POND, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1976 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water years 1966-68, 1971-76.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
NOV											
18...	26	35	6.8	9.0	12.0	11	5	2.4	1.1	1.6	.2
JAN											
06...	411	--	6.6	5.0	13.0	8	5	2.0	.7	.9	.1
FEB											
15...	132	26	6.6	7.0	13.3	6	5	.9	.7	1.0	.2
APR											
12...	203	22	5.7	17.0	10.3	8	7	2.2	.6	.8	.1
MAY											
20...	60	26	6.9	25.0	8.9	9	4	2.3	.7	1.1	.2
JUN											
30...	3.5	32	7.3	30.0	8.4	10	6	2.7	.8	1.4	.2
AUG											
15...	29	34	7.2	29.0	8.5	9	1	2.0	.9	3.2	.5
SEP											
15...	163	34	6.9	23.0	8.6	8	3	1.9	.7	1.1	.2

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)
NOV											
18...	1.4	8	0	5.0	1.2	.1	.8	18	1.26	.03	.15
JAN											
06...	.6	4	0	3.6	2.2	.0	1.6	17	18.9	.81	3.6
FEB											
15...	.5	2	0	3.6	2.2	.0	--	--	--	.34	1.5
APR											
12...	.6	2	0	5.4	1.8	.0	2.7	14	7.67	.02	.08
MAY											
20...	.9	6	0	3.8	1.8	.0	.5	15	2.43	.25	1.1
JUN											
30...	.7	5	0	4.6	4.0	.0	.7	18	.17	.02	.07
AUG											
15...	1.1	10	0	5.0	2.0	.0	2.2	22	1.72	.16	.71
SEP											
15...	.5	6	0	7.4	1.5	.1	2.8	20	8.80	.13	.58

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
NOV										
18...	ND	<1	ND	1	110	1	6	<.2	50	<5
JAN										
06...	ND	ND	1	1	30	ND	11	<.2	10	<5
FEB										
15...	ND	ND	ND	ND	30	1	11	2.0	30	10
APR										
12...	3	<1	ND	1	110	<1	87	ND	30	20
MAY										
20...	<1	<1	ND	1	40	ND	7	<.2	70	10
JUN										
30...	1	<1	ND	1	120	1	30	ND	30	10
AUG										
15...	1	<1	ND	<1	140	<1	81	ND	80	50
SEP										
15...	ND	ND	ND	<1	130	1	40	.2	70	30

MOBILE RIVER MAIN STEM

02400500 COOSA RIVER AT GADSDEN, AL

LOCATION.--Lat 34°00'37", long 85°59'52", in NE¼ sec. 10, T. 12 S., R. 6 E., Etowah County, Hydrologic Unit 03150106, near midstream in pier of Etowah County Memorial Bridge on Forrest Avenue in Gadsden, 450 ft (137 m) downstream from Louisville & Nashville Railroad bridge 1.5 mi (2.4 km) upstream from Big Wills Creek, and at mile 174.8 (281.3 km).

WATER-STAGE RECORD

DRAINAGE AREA.--5,800 mi^2 (15,000 km^2), approximately.

PERIOD OF RECORD.--October 1926 to September 1976. October 1976 to current year (flood hydrograph only). Gage-height records collected at same site since 1890 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 682: Drainage area. WSP 1906: 1944, 1947-49, 1951-52, 1954, 1958.

GAGE.--Water-stage recorder. Datum of gage is 485.97 ft (148.124 m) above mean sea level. Prior to Oct. 1, 1926, nonrecording gage on Louisville & Nashville Railroad bridge 450 ft (137 km) upstream at datum 115 ft (0.351 m) higher. Oct. 1, 1926, to Mar. 31, 1932, water-stage recorder, and Apr. 1, 1932, to May 23, 1935, nonrecording gage, at present site and datum. Since May 4, 1965, auxiliary water-stage recorder 2.2 mi (3.5 km) upstream from base gage at present datum.

REMARKS.--Water-stage record good. A flood hydrograph for selected peaks occurring during the 1977 water year is published under discharge at partial-record stations and miscellaneous sites in this report.

AVERAGE DISCHARGE.--50 years, (1926-76) 9,468 ft^3/s (268 m^3/s), 22.17 in/yr (563 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 76,900 ft^3/s (2,180 m^3/s) Apr. 11, 1936, gage height, 31.13 ft (9.488 m); minimum daily, 100 ft^3/s (2.83 m^3/s), many days in water year 1967.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 6, 1886, reached a stage of 37.0 ft (11.55 m), from flood-marks established by Corps of Engineers (discharge, 115,000 ft^3/s (3,260 m^3/s) from rating curve extended above 80,000 ft^3/s (2,270 m^3/s). Flood of July 15, 1916, reached a stage of 32.7 ft (9.97 m), discharge, 85,000 ft^3/s (2,410 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 27.26 ft (8.309 m) Apr. 6; minimum, 17.96 ft (5.474 m) Nov. 18.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.56	20.97	18.76	18.97	19.16	20.19	23.05	21.49	21.84	21.31	21.91	21.66
2	21.65	20.12	18.56	19.00	19.20	19.35	22.97	21.94	21.80	21.44	21.80	21.71
3	21.70	19.79	18.50	19.13	19.05	18.89	23.19	21.84	21.69	21.49	21.90	21.74
4	21.64	20.08	18.75	19.17	18.85	19.31	24.10	21.58	21.73	21.53	---	21.77
5	21.64	20.69	18.90	19.24	18.82	19.67	27.03	21.49	21.76	21.59	---	21.82
6	21.68	20.96	18.77	19.12	18.97	19.85	26.54	21.28	21.58	21.58	21.91	21.90
7	21.62	21.01	18.64	19.24	18.96	20.57	25.07	20.96	21.60	21.55	21.82	22.13
8	21.62	20.78	18.59	19.36	18.83	20.52	23.94	21.10	21.61	21.52	21.59	22.06
9	21.74	20.28	18.77	19.44	18.84	19.96	23.61	21.31	21.59	21.70	21.58	21.87
10	21.88	19.38	18.82	21.11	18.85	19.45	23.45	21.11	21.57	21.78	21.63	21.79
11	21.86	18.74	18.83	21.57	18.99	19.04	23.34	21.01	21.61	21.82	21.64	21.68
12	21.85	18.76	19.07	21.40	19.14	19.67	23.24	20.98	21.69	21.82	21.63	21.61
13	21.88	18.85	19.12	20.99	19.08	21.23	23.12	20.85	21.72	21.73	21.69	21.59
14	21.85	18.89	18.96	20.20	19.14	22.30	22.97	21.06	21.79	21.75	21.84	21.61
15	21.81	18.73	19.08	19.81	19.03	22.00	22.81	21.34	21.76	21.77	21.86	21.56
16	21.87	18.60	19.08	19.70	18.68	21.78	22.63	21.51	21.69	21.81	21.86	21.76
17	21.90	18.62	18.90	19.38	18.33	21.71	23.00	22.12	21.68	21.85	21.90	21.70
18	21.76	18.18	18.80	19.25	18.52	21.47	22.12	21.81	21.74	21.84	21.93	21.38
19	21.62	18.20	18.95	18.73	18.64	21.30	21.14	21.78	21.75	21.76	21.87	21.37
20	21.58	18.31	19.26	18.92	18.79	21.25	20.37	21.78	21.75	21.76	21.91	21.28
21	21.49	18.40	19.39	18.94	18.71	21.34	20.18	21.85	21.72	21.71	21.95	21.54
22	21.49	18.26	19.29	19.00	18.76	21.57	20.26	22.00	21.62	21.82	21.85	21.55
23	21.54	18.54	18.98	19.15	18.92	21.48	20.22	22.01	21.53	21.88	21.74	21.47
24	21.58	18.85	18.72	19.18	19.60	20.82	20.65	21.96	21.51	21.93	21.70	21.53
25	21.61	18.98	18.96	19.30	19.57	20.16	21.69	21.91	21.37	21.87	21.64	21.64
26	21.63	18.95	19.42	19.27	19.41	19.67	21.70	21.87	21.28	21.77	21.64	21.93
27	21.60	19.07	19.61	18.99	19.49	19.02	21.47	21.85	21.26	21.80	21.68	22.36
28	21.42	19.28	19.38	18.76	19.80	19.21	21.29	21.91	21.27	21.84	21.69	22.15
29	21.20	19.10	19.17	18.96	---	19.71	21.18	22.05	21.32	21.86	21.63	21.81
30	21.26	18.98	18.97	19.12	---	21.56	21.14	22.05	21.27	21.93	21.60	21.71
31	21.35	---	18.96	19.05	---	22.19	---	21.92	---	21.97	21.60	---
MEAN	21.64	19.28	18.97	19.47	19.00	20.52	22.58	21.60	21.60	21.73	---	21.72
MAX	21.90	21.01	19.61	21.57	19.80	22.30	27.03	22.12	21.84	21.97	---	22.36
MIN	21.20	18.18	18.50	18.73	18.33	18.89	20.18	20.85	21.26	21.31	---	21.28

MOBILE RIVER MAIN STEM

02400500 COOSA RIVER AT GADSDEN, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1962 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1962 to current year.

INSTRUMENTATION.--Temperature recorder since 1962.

REMARKS.--Miscellaneous samples of chemical data published for water year 1965.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum (water years 1962-71, 1973, 1976-77), 32.0°C July 19, 1977; minimum (water years 1962-71, 1973, 1976-77), 1.0°C Jan. 22, 1977.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 29.5°C July 19; minimum, 1.0°C Jan. 22.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	25.0	23.5	14.5	13.5	8.5	8.0	5.0	4.5	3.5	3.0	11.0	11.0
2	23.5	23.5	14.0	13.0	8.0	7.5	4.5	3.5	3.5	2.5	11.0	11.0
3	23.5	23.5	13.5	13.0	8.0	7.5	4.0	3.5	3.5	3.0	11.0	10.5
4	24.0	23.5	13.5	12.5	8.5	7.5	3.5	3.5	4.5	3.5	11.0	10.5
5	23.5	23.0	13.0	12.5	9.0	8.0	4.0	3.5	5.0	3.5	11.0	11.0
6	23.0	23.0	12.5	12.0	9.5	7.5	4.0	3.5	4.5	3.0	11.0	10.5
7	23.0	22.5	12.5	12.0	8.0	7.5	4.0	4.0	5.0	4.0	11.0	11.0
8	22.5	22.0	13.0	11.0	8.0	7.0	4.0	4.0	4.0	3.5	11.0	10.5
9	22.0	21.5	11.0	11.0	7.0	6.5	4.5	4.0	4.0	3.5	11.0	10.5
10	21.5	21.0	11.0	10.5	7.0	6.5	4.0	4.0	4.5	4.0	11.5	11.0
11	21.5	21.0	11.5	11.0	7.0	6.5	4.0	3.0	5.0	4.5	12.0	11.5
12	21.0	20.5	11.5	10.5	7.0	6.5	3.0	3.0	5.5	5.0	13.0	11.5
13	20.5	20.0	11.0	10.5	7.5	7.0	3.5	3.0	5.5	5.0	13.0	12.5
14	20.5	20.0	11.0	10.0	7.0	7.0	3.5	3.0	6.0	5.0	13.5	13.0
15	20.0	20.0	10.5	9.5	7.5	7.0	4.0	3.5	6.5	6.0	14.0	13.5
16	20.0	20.0	9.5	9.5	8.0	7.5	4.0	3.5	6.5	6.5	14.5	14.0
17	20.0	19.5	9.5	9.5	7.5	7.5	3.5	2.5	6.5	6.0	14.5	14.5
18	20.0	19.5	9.5	9.0	8.0	7.5	3.0	2.0	7.0	6.0	14.5	14.5
19	19.5	18.5	10.0	9.5	8.5	8.0	2.5	1.5	7.0	6.5	15.0	14.5
20	18.5	17.5	10.5	9.5	10.0	8.5	2.0	1.5	7.5	6.5	15.0	14.5
21	18.0	17.5	10.0	10.0	8.5	7.5	2.0	1.5	8.0	6.5	15.0	14.5
22	17.5	17.0	11.5	9.5	7.5	6.5	2.0	1.0	8.0	7.5	14.5	14.0
23	17.5	17.0	10.5	9.0	6.5	6.0	2.0	1.5	9.0	8.0	14.0	13.5
24	17.5	17.0	9.5	9.0	6.5	6.0	4.0	2.0	9.5	8.0	13.5	13.0
25	17.5	16.5	9.5	9.0	5.5	5.5	2.5	2.0	10.5	9.0	14.0	13.5
26	17.5	16.5	10.0	9.0	5.5	5.0	3.0	2.0	11.0	9.5	14.0	13.5
27	16.5	15.5	10.0	9.0	5.5	5.0	4.0	2.5	11.0	10.5	14.5	13.5
28	16.0	15.0	10.5	9.5	5.5	4.5	4.5	3.5	11.0	10.5	15.0	14.5
29	15.0	14.0	9.5	9.0	5.5	5.0	5.0	3.5	---	---	15.0	14.5
30	14.5	14.0	9.0	8.0	5.5	5.0	3.5	3.0	---	---	15.0	14.5
31	14.5	13.5	---	---	5.5	5.0	5.5	3.0	---	---	16.0	15.0
MONTH	25.0	13.5	14.5	8.0	10.0	4.5	5.5	1.0	11.0	2.5	16.0	10.5

02400500 COOSA RIVER AT GADSDEN, AL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	16.0	15.5	19.5	19.0	26.0	25.5	29.5	29.0	30.0	28.5	30.0	29.0
2	16.5	16.0	20.0	19.5	26.5	26.0	29.0	29.0	30.5	29.0	30.0	29.0
3	16.5	16.5	20.0	20.0	26.5	26.0	30.0	29.0	30.5	29.0	29.5	29.0
4	17.0	16.5	20.5	20.0	27.0	25.5	29.5	29.0	30.0	29.0	29.5	29.0
5	17.0	16.5	21.0	20.0	27.5	26.0	29.5	29.0	30.0	29.0	29.5	29.0
6	16.5	15.5	21.5	21.0	26.5	26.0	31.5	29.0	30.0	29.0	29.0	29.0
7	15.5	15.5	21.5	21.5	27.0	26.5	30.5	30.0	30.5	29.0	29.0	28.0
8	16.0	15.5	22.0	21.5	27.5	26.0	31.0	30.0	30.0	29.5	28.5	27.5
9	16.0	16.0	23.0	22.0	27.0	26.0	31.0	30.0	30.5	29.5	28.0	27.5
10	16.5	16.0	23.0	22.0	27.5	26.0	31.0	30.0	31.0	29.5	27.5	27.5
11	16.5	16.0	22.0	21.5	27.0	26.0	31.0	30.5	31.0	30.0	27.5	27.5
12	17.0	16.5	22.0	21.5	27.0	26.0	31.5	30.5	30.5	30.0	27.5	27.0
13	17.5	17.0	22.0	21.5	28.0	26.5	31.0	30.5	30.0	30.0	27.5	27.0
14	18.0	17.5	22.0	21.5	27.5	26.5	31.0	30.5	30.0	30.0	27.5	27.0
15	18.5	18.0	22.0	21.5	27.0	26.5	31.5	30.5	31.0	30.0	27.5	27.0
16	18.5	18.5	24.0	21.5	26.5	26.5	30.5	30.5	31.0	30.0	27.0	26.5
17	19.0	18.5	23.5	22.5	27.0	26.5	31.5	30.5	31.0	30.0	26.5	26.0
18	19.5	19.0	23.5	23.0	27.0	26.0	31.5	30.5	30.5	30.0	27.0	26.5
19	19.5	19.0	24.0	23.0	28.0	26.5	32.0	30.5	30.0	29.5	27.0	26.5
20	19.5	19.5	24.5	23.5	27.5	26.5	31.0	30.5	30.0	29.0	27.0	26.5
21	19.5	19.5	25.5	24.0	28.5	27.0	31.5	30.5	30.5	29.0	27.0	26.5
22	19.5	19.5	25.0	24.0	28.5	27.5	31.0	30.0	30.0	29.5	27.0	26.5
23	19.5	19.0	24.5	23.5	28.5	27.5	30.5	30.5	29.5	29.0	27.0	26.0
24	19.5	19.0	23.5	23.0	28.5	27.5	31.0	30.5	30.5	29.0	27.0	26.5
25	19.0	19.0	24.0	23.5	29.5	28.0	31.5	30.0	30.0	29.0	27.5	26.5
26	19.0	18.5	24.0	23.5	29.5	28.5	30.5	30.0	29.5	29.0	27.0	25.5
27	18.5	18.5	24.5	24.0	30.0	28.5	30.5	29.5	30.5	29.0	25.5	25.0
28	19.0	18.0	24.5	24.0	30.0	29.0	30.0	29.0	31.0	30.0	25.0	24.5
29	19.0	18.5	25.0	24.0	30.5	29.0	29.5	29.0	31.0	29.5	25.0	24.5
30	19.0	18.5	25.0	24.5	30.5	29.0	29.5	29.0	30.0	29.5	25.0	24.0
31	---	---	26.0	25.0	---	---	29.0	29.0	29.5	29.0	---	---
MONTH	19.5	15.5	26.0	19.0	30.5	25.5	32.0	29.0	31.0	28.5	30.0	24.0
YEAR	32.0	1.0										

02401000 BIG WILLS CREEK NEAR CRUDUP, AL

LOCATION.--Lat 34°05'53", long 86°02'17", in SE¼ sec. 6, T. 11 S., R. 6 E., Etowah County, Hydrologic Unit 03150106, near right bank on upstream side of bridge on county road, 1 mi (1.6 km) upstream from Fisher Creek, 2 mi (3.2 km) west of Crudup, and at mile 25.0 (40.2 km).

DRAINAGE AREA.--185 mi^2 (479 km^2).

PERIOD OF RECORD.--August 1972 to June 1973, March 1975 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965, 1966, and 1967.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)
NOV												
19...	72	295	6.8	8.0	11.8	130	0	35	11	4.7	.2	1.7
JAN												
06...	181	--	7.8	6.5	12.0	130	7	40	8.1	2.7	.1	1.1
FEB												
15...	117	270	7.7	9.0	--	130	7	38	8.0	3.9	.2	1.0
APR												
01...	2460	130	6.9	16.0	8.8	63	11	21	2.5	1.7	.1	.9
MAY												
19...	161	243	8.0	19.5	9.1	110	0	32	8.0	2.9	.1	1.0
JUN												
30...	117	294	7.8	23.5	7.6	130	7	38	9.3	4.0	.2	1.3
AUG												
15...	77	210	7.5	26.0	6.6	100	10	29	7.7	3.4	.1	1.8
SEP												
15...	115	271	8.0	22.0	7.2	130	--	37	9.8	4.0	.2	.9

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)
NOV											
19...	160	0	4.6	6.0	.1	1.4	148	28.8	.90	4.0	ND
JAN											
06...	150	0	5.4	3.4	.0	4.6	154	75.3	3.4	15	ND
FEB											
15...	150	0	1.8	5.4	.1	1.3	137	43.3	.72	3.2	ND
APR											
01...	64	0	5.0	2.6	.1	2.9	70	465	.23	1.0	1
MAY											
19...	140	0	3.0	3.8	.1	4.1	128	55.6	.93	4.1	2
JUN											
30...	150	0	5.0	5.8	.0	4.8	145	45.8	.59	2.6	<1
AUG											
15...	110	0	5.6	4.8	.1	6.1	115	23.9	.54	2.4	1
SEP											
15...	--	--	7.0	4.1	.1	6.6	--	--	2.3	10	ND

DATE	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	CHLOR-A PERIPHYTON CHROMOGRAPHIC FLUOROM (MG/M2)	CHLOR-B PERIPHYTON CHROMOGRAPHIC FLUOROM (MG/M2)
NOV											
19...	<1	ND	<1	30	1	24	<.2	110	10	--	--
JAN											
06...	<1	1	1	0	2	30	<.2	60	<5	--	--
FEB											
15...	<1	ND	<1	70	<1	54	<.2	90	10	--	--
APR											
01...	<1	ND	1	80	1	2	<.2	60	10	--	--
MAY											
19...	<1	ND	1	ND	ND	<1	ND	130	10	--	--
JUN											
30...	<1	ND	ND	20	ND	29	.2	100	10	--	--
AUG											
15...	1	ND	1	50	<1	17	ND	120	80	.225	.000
SEP											
15...	ND	ND	ND	ND	1	67	ND	50	10	.034	.004

02401390 BIG CANOE CREEK AT ASHVILLE, AL

LOCATION.--Lat 33°50'23", long 86°15'46", in SW¼SE¼ sec. 6, T. 14 S., R. 4 E., St. Clair County, on downstream side of bridge on U.S. Highway 231, 0.5 mi (0.8 km) west-northwest of Ashville, and 1.7 mi (2.7 km) downstream from Muckleroy Creek.

DRAINAGE AREA.--148 mi^2 (383 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1965 to current year.

REVISED RECORDS.--WDR AL-76-1: 1971-75 (P).

GAGE.--Water-stage recorder. Altitude of gage is 535 ft (163 m) (from topographic map).

REMARKS.--Water-discharge record good.

AVERAGE DISCHARGE.--12 years, 275 ft^3/s (7.788 m^3/s), 25.23 in/yr (641 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,560 ft^3/s (271 m^3/s) Mar. 20, 1970, gage height, 17.34 ft (5.285 m); minimum, 11 ft^3/s (0.31 m^3/s) Oct. 26-31, 1965, and Oct. 8, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,500 ft^3/s (99 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 10	0700	3840	109	13.95	4.252	Mar. 30	1800	3710	105	13.85	4.221
Mar. 13	1800	5630	105	13.85	4.221	Apr. 6	1500	*9140	259	*17.06	5.200

Minimum daily, 14 ft^3/s (0.40 m^3/s) Sept. 2-5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	28	59	160	207	589	744	122	39	25	21	15
2	27	25	46	150	184	443	568	103	36	33	20	14
3	25	23	40	250	169	371	1660	95	33	34	20	14
4	24	24	36	280	163	965	4120	91	32	27	20	14
5	22	23	34	260	160	984	8490	98	31	24	20	14
6	24	23	34	400	136	2130	4410	91	31	23	20	16
7	27	23	52	725	121	2310	1220	79	30	22	18	949
8	28	25	76	384	111	835	701	74	29	21	18	656
9	27	21	57	1250	105	586	528	104	29	21	17	123
10	26	23	45	3670	101	465	430	90	28	21	17	71
11	25	25	44	1350	96	405	368	71	28	21	16	50
12	23	27	294	521	100	1830	321	63	28	20	16	39
13	22	26	474	415	165	5310	288	58	27	21	16	35
14	22	40	215	712	138	2680	262	55	27	20	16	38
15	22	60	196	791	112	785	237	52	30	19	26	38
16	21	45	184	488	99	579	212	50	29	18	21	75
17	21	32	132	368	89	453	192	49	28	18	19	238
18	21	31	107	322	87	396	172	48	27	19	19	114
19	21	23	92	283	86	344	156	45	27	20	18	72
20	21	27	468	251	82	326	144	44	28	20	17	63
21	21	27	635	231	76	486	132	42	25	19	16	61
22	22	27	281	203	72	2140	138	42	24	19	17	48
23	22	25	207	180	107	813	314	52	25	19	17	40
24	20	24	163	523	2760	521	389	54	35	18	17	36
25	30	24	483	529	1940	429	241	45	33	21	17	42
26	31	25	781	346	579	356	187	42	32	25	23	202
27	30	26	350	302	1210	313	156	41	29	21	18	133
28	24	37	260	348	1040	389	135	44	31	20	19	88
29	25	139	210	327	---	883	122	45	28	25	19	67
30	43	99	180	252	---	3350	114	43	26	31	17	638
31	40	---	200	232	---	2080	---	39	---	25	16	---
TOTAL	789	1027	6435	16503	10295	34546	27151	1971	885	690	571	4003
MEAN	25.5	34.2	208	532	368	1114	905	63.6	29.5	22.3	18.4	133
MAX	43	139	781	3670	2760	5310	8490	122	39	34	26	949
MIN	20	21	34	150	72	313	114	39	24	18	16	14
CFSM	.17	.23	1.41	3.60	2.49	7.53	6.12	.43	.20	.15	.12	.90
IN.	.20	.26	1.62	4.15	2.59	8.68	6.82	.50	.22	.17	.14	1.01

CAL YR 1976 TOTAL 113735 MEAN 311 MAX 5710 MIN 20 CFSM 2.10 IN 28.59
WTR YR 1977 TOTAL 104866 MEAN 287 MAX 8490 MIN 14 CFSM 1.94 IN 26.36

2401390 BIG CANOE CREEK AT ASHVILLE, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1970 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water years 1966, 1967, and 1968.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
NOV											
19...	28	293	7.7	9.0	12.0	130	7	38	9.5	2.2	.1
APR											
01...	742	110	7.1	14.5	9.2	49	3	15	2.8	1.6	.1
AUG											
29...	18	245	7.7	26.5	6.4	120	1	31	9.2	2.2	.1

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)
NOV											
19...	1.6	150	0	6.0	3.4	.1	4.3	160	12.1	4.7	21
APR											
01...	.6	56	0	5.6	2.0	.0	3.7	60	120	.16	.72
AUG											
29...	1.1	140	0	4.8	2.1	.0	6.3	127	6.17	.31	1.4

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
NOV										
19...	1	<1	ND	1	170	2	29	ND	60	10
APR										
01...	2	<1	ND	1	130	2	9	<.2	50	<5
AUG										
29...	1	<1	ND	1	10	2	58	<.2	70	10

02401450 GULF CREEK NEAR STEELE, AL

LOCATION.--Lat 32°55'06", long 86°15'08", in E½ sec. 8, T. 13 S., R. 4 E., St. Clair County, Hydrologic Unit 03150106, at county road 0.7 mi (1.1 km) downstream from Jake Creek, and 3.3 mi (5.3 km) southwest of Steele, and at mile 0.6 (1.0 km).

DRAINAGE AREA.--13.1 mi^2 (33.9 km^2).

PERIOD OF RECORD.--September 1976 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 590 ft (179.8 m) (from topographic map).

REMARKS.--Records poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, October 1976 to September 1977, 756 ft^3/s (21.410 m^3/s) Apr. 4, gage height, 6.57 ft (2.003 m); minimum, no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	5.0	11	8.0	30	55	1.2	.00	.00	.00	.00
2	.00	.00	3.0	10	7.5	25	43	1.0	.00	.00	.00	.00
3	.00	.00	2.7	20	7.0	20	118	.90	.00	.00	.00	.00
4	.00	.00	2.6	25	6.5	20	756	.80	.00	.00	.00	.00
5	.00	.00	2.5	20	6.0	30	334	.70	.00	.00	.00	.00
6	.00	.10	4.0	30	5.5	70	88	.60	.00	.00	.00	5.0
7	.00	.10	6.5	38	5.0	100	58	.50	.00	.00	.00	120
8	.00	.20	5.0	70	4.5	80	41	.40	.00	.00	.00	25
9	.00	.20	4.0	100	4.0	40	36	.30	.00	.00	.00	16
10	.00	.20	3.0	130	3.5	30	29	.20	.00	.00	.00	9.4
11	.00	.30	7.0	60	3.0	50	23	.20	.00	.00	.00	6.0
12	.00	.50	20	40	4.0	130	19	.20	.00	.00	.00	4.0
13	.00	1.0	40	25	5.0	100	16	.10	.00	.00	.00	3.0
14	.00	30	20	50	8.5	70	14	.10	.00	.00	.00	2.3
15	.00	4.5	13	70	9.0	40	11	.10	.00	.00	.00	1.8
16	.00	.60	9.0	40	8.0	30	8.7	.10	.00	.00	.00	35
17	.00	.50	7.0	30	7.5	25	7.8	.00	.00	.00	.00	20
18	.00	.50	6.8	25	7.0	20	6.8	.00	.00	.00	.00	12
19	.00	.40	6.0	20	6.5	25	5.7	.00	.00	.00	.00	10
20	.00	.40	20	18	6.2	30	5.3	.00	.00	.00	.00	8.9
21	.00	.40	55	15	6.0	96	4.4	.00	.00	.00	.00	6.4
22	.00	.30	30	13	9.0	74	4.0	.00	.00	.00	.00	4.6
23	.00	.30	13	15	15	52	3.5	.00	.00	.00	.00	3.3
24	.00	.20	7.0	30	100	41	3.2	.00	.00	.00	.00	2.4
25	.00	.20	20	45	70	33	2.9	.00	.00	.00	.00	3.2
26	.00	.20	70	30	40	27	2.5	.00	.00	.00	.00	20
27	.00	.30	30	18	50	23	2.0	.00	.00	.00	.00	19
28	.00	3.0	20	13	45	31	1.8	.00	.00	.00	.00	16
29	.00	12	16	11	---	72	1.5	.00	.00	.00	.00	12
30	.00	8.0	15	10	---	130	1.4	.00	.00	.00	.00	28
31	.00	---	13	9.0	---	80	---	.00	---	.00	.00	---
TOTAL	.00	64.40	476.1	1041.0	457.2	1624	1702.5	7.40	.00	.00	.00	393.30
MEAN	.000	2.15	15.4	33.6	16.3	52.4	56.8	.24	.000	.000	.000	13.1
MAX	.00	30	70	130	100	130	756	1.2	.00	.00	.00	120
MIN	.00	.00	2.5	9.0	3.0	20	1.4	.00	.00	.00	.00	.00

WTR YR 1977 TOTAL 5765.90 MEAN 15.8 MAX 756 MIN .00

02403500 COLDWATER SPRING NEAR ANNISTON, AL

LOCATION.--Lat 33°36'10", long 85°55'33", in SE¼ sec. 29, T. 16 S., R. 7 E., Calhoun County, Hydrologic Unit 03150106, in pool of Coldwater Spring, 200 ft (61 m) upstream from Coldwater Creek, 2 mi (3.2 km) upstream from Choccolocco Creek, and 7 mi (11.3 km) southwest of Anniston.

PERIOD OF RECORD.--July 1944 to March 1947, April 1957 to current year.

GAGE.--Water-stage recorder and sharp-crested weir. Altitude of gage is 590 ft (180 m) (from topographic map). Prior to Mar. 31, 1947, nonrecording gage at same site and datum.

REMARKS.--Records good. Records of discharge include flow over weir and diversion from pool of an average of 23.4 ft^3/s (0.66 m^3/s) for municipal water supply for city of Anniston as determined by Venturi-meter readings.

COOPERATION.--Records furnished by the Water Works and Sewer Board of the City of Anniston.

AVERAGE DISCHARGE.--22 years (water years 1944-46, 1957-77), 48.8 ft^3/s (1.382 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge for 7-day period, 66 ft^3/s (1.87 m^3/s) Apr. 1-7, 1976; minimum discharge for 5-day period, 36.4 ft^3/s (1.03 m^3/s) Dec. 5-9, 6-10, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 65 ft^3/s (1.84 m^3/s) Mar. 31, Apr. 1, minimum daily, 44 ft^3/s (1.25 m^3/s) Nov. 22, 23, Dec. 4, 5, Sept. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	46	46	45	49	51	65	57	55	51	49	47
2	49	46	45	45	49	51	64	57	55	52	48	47
3	48	47	46	48	50	52	63	56	54	50	47	47
4	48	47	44	47	49	52	64	57	53	51	48	46
5	49	46	44	46	49	51	62	57	54	50	48	46
6	48	46	45	47	49	52	64	57	55	50	48	47
7	48	45	46	47	47	52	64	57	53	51	47	46
8	48	46	45	47	49	54	64	56	53	51	48	46
9	47	47	45	48	48	54	62	57	53	50	48	47
10	47	47	46	48	49	53	62	56	53	49	48	46
11	48	46	45	48	48	54	61	56	53	51	48	46
12	48	46	45	50	48	54	62	56	52	49	48	46
13	48	45	45	50	48	55	63	56	53	50	48	47
14	48	45	46	51	49	56	62	56	53	50	46	47
15	49	46	46	49	48	56	62	55	53	51	48	46
16	48	45	46	49	48	55	61	55	53	50	47	46
17	46	45	45	50	49	56	61	55	53	49	47	46
18	47	46	45	51	49	57	61	55	52	51	47	46
19	47	46	45	49	48	55	61	55	51	49	47	46
20	48	45	46	51	46	54	61	55	53	51	46	46
21	47	45	45	49	49	56	60	55	52	49	46	46
22	47	44	46	49	48	57	60	54	52	50	46	46
23	46	44	46	49	49	58	59	55	53	49	45	45
24	46	45	45	50	49	58	59	55	50	49	48	44
25	49	45	45	50	50	58	59	56	53	49	48	45
26	47	45	46	50	50	58	58	56	52	49	47	46
27	47	44	47	51	49	57	58	55	51	49	47	46
28	47	45	48	50	51	57	58	55	51	48	46	47
29	47	45	47	50	---	59	57	53	52	48	48	47
30	46	45	47	49	---	62	57	54	52	48	48	47
31	45	---	45	49	---	65	---	54	---	48	48	---
TOTAL	1472	1365	1413	1512	1364	1719	1834	1723	1582	1542	1468	1386
MEAN	47.5	45.5	45.6	48.8	48.7	55.5	61.1	55.6	52.7	49.7	47.4	46.2
MAX	49	47	48	51	51	65	65	57	55	52	49	47
MIN	45	44	44	45	46	51	57	53	50	48	45	44

CAL YR 1976 TOTAL 19796 MEAN 54.1 MAX 66 MIN 44
WTR YR 1977 TOTAL 18380 MEAN 50.4 MAX 65 MIN 44

02404400 CHOCCOLOCCO CREEK AT JACKSON SHOALS, NEAR LINCOLN, AL

LOCATION.--Lat 33°32'54", long 86°05'49", in SE¼ sec. 15, T. 17 S., R. 5 E., Talladega County, Hydrologic Unit 03150106, on left bank at foot of Jackson Shoals, 50 ft (15 m) upstream from Alabama Power Company Jackson Shoals transformer station, 900 ft (274 m) upstream from highway bridge, 1.8 mi (2.9 km) downstream from Eastaboga Creek, and 4.5 mi (7.2 km) southeast of Lincoln.

DRAINAGE AREA.--484 mi^2 (1,254 km^2).

PERIOD OF RECORD.--October 1976 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965-68, 1974.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)
NOV 15...	260	455	8.0	9.5	10.9	120	6	23	14	36	1.5	1.7
DEC 16...	350	255	7.7	9.5	11.2	84	8	17	10	27	1.3	1.4
JAN 26...	795	225	7.3	6.0	6.1	64	1	13	7.7	14	.8	1.2
MAR 09...	1600	117	6.9	10.5	11.0	44	0	9.8	4.7	4.9	.3	.9
APR 21...	864	203	7.3	20.0	8.4	74	10	18	7.1	14	.7	1.1
JUN 07...	322	340	7.4	23.0	9.4	95	0	20	11	32	1.4	1.3
JUL 19...	225	410	7.6	25.5	9.0	100	0	19	13	35	1.5	1.3
AUG 26...	243	430	7.7	25.0	7.4	120	14	24	14	29	1.2	1.4

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)
NOV 15...	140	0	43	32	.1	7.6	229	161	.56	2.5	1
DEC 16...	93	0	24	25	.0	9.3	162	153	.45	2.0	2
JAN 26...	77	0	14	14	.1	6.9	111	238	.54	2.4	1
MAR 09...	56	0	5.8	4.4	.0	7.0	66	285	.27	1.2	1
APR 21...	78	0	11	12	.0	7.4	111	259	.32	1.4	2
JUN 07...	120	0	27	29	.1	5.2	190	165	1.1	4.8	1
JUL 19...	130	0	32	35	.2	7.2	209	127	.50	2.2	<1
AUG 26...	130	0	30	30	.2	7.4	204	134	.84	3.7	.2

DATE	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	CHLOR-A PERIPHYTON CHROMOGRAPHIC FLUOROM (MG/M2)	CHLOR-B PERIPHYTON CHROMOGRAPHIC FLUOROM (MG/M2)
NOV 15...	<1	<1	<1	10	1	17	.2	70	20	--	--
DEC 16...	<1	<1	<1	110	1	--	<.2	--	--	--	--
JAN 26...	<1	ND	1	240	ND	54	<.2	30	40	--	--
MAR 09...	<1	ND	<1	110	<1	39	<.2	30	40	--	--
APR 21...	<1	1	<1	90	3	21	.3	70	20	--	--
JUN 07...	<1	ND	<1	70	<1	12	.2	50	30	--	--
JUL 19...	<1	ND	1	160	1	25	<.2	50	10	.009	.000
AUG 26...	<1	ND	1	20	2	28	<.2	70	60	--	--

MOBILE RIVER MAIN STEM

02407000 COOSA RIVER AT CHILDERSBURG, AL

LOCATION.--Lat. 33°17'30", long 86°21'50", in NE¼ sec. 18, T. 20 S., R. 3 E., Shelby County, Hydrologic Unit 03150107, near right bank on downstream side of Central of Georgia Railway bridge, 700 ft (213 m) upstream from bridge on State Highway 38, 0.5 mi (0.8 km) downstream from Tallasseehatchee Creek, 1 mi (2 km) northwest of Childersburg, and at mile 86.3 (138.9 km).

DRAINAGE AREA.--8,390 mi^2 (21,730 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1913 to current year. Monthly discharge only for periods October 1913 to February 1914, June 1915, July to September, November 1916, published in WSP 1304.

GAGE.--Water-stage recorder. Datum of gage is 382.45 ft (116.571 m) above mean sea level (levels by Alabama Power Co.). Prior to Oct. 1, 1915, at datum 0.10 ft (0.030 m) lower. Since Sept. 29, 1967, auxiliary water-stage recorder, 3.5 mi (5.6 km) downstream.

REMARKS.--Water-discharge record poor. Since December 1949 flow regulated by Allatoona Reservoir on Etowah River, since April 1961 by Weiss Reservoir on Coosa River, since July 1964 by Logan-Martin Reservoir. (See Reservoirs in Mobile River basin.)

AVERAGE DISCHARGE.--64 years, 13,850 ft^3/s (392.2 m^3/s), 22.42 in/yr (569 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 146,000 ft^3/s (4,130 m^3/s) Mar. 30, 31, 1951; maximum gage height, 30.41 ft (9.269 m) Feb. 23, 1961; minimum daily discharge, 378 ft^3/s (10.7 m^3/s) Apr. 20, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 104,000 ft^3/s (2,950 m^3/s) Apr. 6; minimum daily discharge, 542 ft^3/s (15.3 m^3/s) Oct. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4890	13000	1890	11700	10600	42300	60300	9480	7240	2770	9800	3260
2	848	12000	3520	7160	9720	24500	56300	11800	8700	1000	3900	1600
3	833	2200	1370	13100	9250	20500	59500	18800	9750	1270	4790	1420
4	542	1100	2760	10200	8100	37000	61500	14500	2030	900	4470	744
5	3510	5640	968	13000	4070	19600	83900	15200	6400	3130	7970	1590
6	2560	833	10100	14000	1890	34000	104000	17900	11000	4820	2290	3000
7	7780	833	10100	17200	1560	41400	102000	16400	1440	5050	4330	4170
8	3330	11800	1620	15600	1710	36400	95800	10900	3030	4620	6890	9490
9	1650	8360	9460	23600	9660	32800	83000	19700	4930	3810	6650	7200
10	8350	6900	6060	47600	6440	26500	71900	16200	5060	970	3210	6600
11	7310	7500	7930	42100	5180	21300	66600	11000	2250	840	3610	10400
12	8120	9110	2290	38000	1150	39200	63700	13900	950	3700	2990	9500
13	5760	3520	4140	32700	1410	61100	60600	10800	10000	3780	769	6540
14	6870	4200	2560	33400	6630	58800	57000	1170	5840	3130	857	10400
15	735	13600	2120	30000	9360	53500	58400	1160	3150	2110	2950	9540
16	8150	7610	1990	24700	9920	52600	54800	2890	8880	2230	3990	14300
17	815	7400	1950	22900	10200	39700	37300	10600	4650	797	2910	15400
18	9270	6640	1890	15700	5060	38900	36100	11400	2850	1940	3160	11600
19	8580	2920	1120	14900	1160	34400	33200	4940	2530	2990	5910	14000
20	8100	2020	2100	9970	1140	33700	27000	6360	6280	3240	1760	11200
21	8090	929	2560	14700	9500	43000	21300	1080	6010	5860	797	10900
22	6330	8700	2430	7880	4850	69100	20200	1340	11500	2850	6280	3720
23	799	3920	1850	6060	3990	60000	16900	11500	6640	818	8020	8600
24	802	2800	1660	16800	28100	47200	11200	9050	10700	2100	9170	894
25	6230	889	2730	14800	30700	35300	22900	8020	3080	8480	8110	742
26	6620	3400	5430	10400	39700	28400	20700	7490	1360	7180	4130	10400
27	7730	950	3250	12500	27300	19000	23100	8680	6620	4970	1350	11800
28	9020	4580	2570	8030	27500	20100	17400	1230	1440	3370	1770	10100
29	6830	15500	2240	7660	---	52200	18600	3160	2460	4870	2800	11200
30	5530	14800	2140	2900	---	92600	12100	9770	6220	3160	6480	1030
31	1010	---	1860	9870	---	75400	---	9520	---	1020	2880	---
TOTAL	156994	183654	104658	549130	285850	1290500	1457300	295940	162990	97775	134993	221340
MEAN	5064	6122	3376	17710	10210	41630	48580	9546	5433	3154	4355	7378
MAX	9270	15500	10100	47600	39700	92600	104000	19700	11500	8480	9800	15400
MIN	542	833	968	2900	1140	19000	11200	1080	950	797	769	742
CFSM	.60	.73	.40	2.11	1.22	4.96	5.79	1.14	.65	.38	.52	.88
IN.	.70	.81	.46	2.43	1.27	5.72	6.46	1.31	.72	.43	.60	.98

CAL YR 1976 TOTAL 5504076 MEAN 15040 MAX 78400 MIN 542 CFSM 1.79 IN 24.40
WTR YR 1977 TOTAL 4941124 MEAN 13540 MAX 104000 MIN 542 CFSM 1.61 IN 21.91

02407000 COOSA RIVER AT CHILDERSBURG, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1962 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1962 to current year.

REMARKS.--No temperature data for Aug. 9-25 due to recorder malfunction.

INSTRUMENTATION.--Temperature recorder since October 1962.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 36.0°C July 6, 1969; minimum, 2.0°C on several days in January 1977.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 30.5°C July 10-11; minimum, 2.0°C on several days in January.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
MAR											
25...	31800	105	7.3	13.5	9.4	41	3	11	3.3	4.4	.3
AUG											
26...	1200	210	7.4	28.5	4.2	76	11	20	6.2	11	.6

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)
MAR											
25...	1.7	47	0	6.4	3.6	.0	4.6	61	5240	.43	1.9
AUG											
26...	1.8	80	0	8.8	13	.1	1.5	102	330	.06	.27

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
MAR										
25...	2	<1	1	1	10	1	45	.2	60	360
AUG										
26...	ND	1	ND	<1	40	1	230	.3	70	50

02407000 COOSA RIVER AT CHILDERSBURG, AL--continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	24.5	23.5	16.0	15.0	9.5	9.0	5.0	5.0	3.0	2.5	10.5	9.5
2	24.5	23.5	16.0	15.0	9.5	9.0	5.0	4.5	3.5	2.5	10.5	10.0
3	24.0	23.5	16.0	15.0	9.5	9.0	5.0	4.5	3.5	3.0	10.5	10.0
4	24.0	22.5	15.5	14.5	9.5	9.0	5.0	4.5	4.0	3.0	11.0	10.5
5	24.5	23.0	15.0	14.0	9.5	9.0	5.5	4.5	5.0	3.5	11.5	11.0
6	24.0	23.0	14.5	14.0	10.0	9.0	5.5	4.5	5.0	4.0	10.5	10.5
7	23.5	22.5	15.0	13.5	9.0	8.5	5.0	4.0	4.5	3.5	11.0	10.5
8	23.0	22.0	14.0	13.0	8.5	8.0	5.0	4.0	4.0	3.0	11.0	10.5
9	22.5	21.5	13.5	13.0	8.0	8.0	5.0	4.0	4.0	3.5	11.0	10.5
10	22.5	21.5	14.0	13.0	8.5	8.0	4.0	3.5	4.5	4.0	11.0	10.5
11	22.0	20.5	14.0	13.0	9.0	8.0	3.5	3.0	5.5	4.0	11.5	11.0
12	22.5	21.5	13.0	12.5	8.5	8.0	3.5	3.0	6.0	4.0	12.0	11.5
13	22.0	21.0	12.5	12.0	8.5	7.5	3.0	3.0	10.0	5.5	12.5	12.0
14	22.0	21.0	12.0	11.5	8.0	7.5	3.0	3.0	8.0	5.5	13.0	12.0
15	21.5	21.0	12.0	11.5	8.0	7.5	3.5	3.0	7.0	4.5	13.5	12.5
16	21.5	21.0	12.0	11.5	8.0	7.5	4.0	3.0	5.0	4.5	14.0	13.5
17	21.0	20.5	12.0	11.5	8.0	7.0	3.0	2.5	5.5	4.5	14.0	13.5
18	20.5	19.5	11.5	11.5	8.0	7.5	3.5	2.5	6.5	5.0	14.5	14.0
19	20.5	19.5	11.5	11.5	8.5	7.5	3.0	2.0	8.5	5.5	14.5	14.0
20	20.0	19.5	12.0	11.5	9.0	7.5	3.0	2.5	8.5	7.0	14.5	14.0
21	19.5	18.5	11.5	11.0	7.5	7.0	3.0	2.0	8.5	6.0	14.5	14.0
22	19.0	18.0	11.5	10.5	7.0	6.5	3.5	2.0	7.5	6.0	14.5	14.0
23	19.0	18.0	10.5	10.0	6.5	6.5	4.5	2.5	7.5	6.5	14.0	13.5
24	18.5	18.5	10.5	10.0	6.5	6.0	5.0	2.0	8.0	7.0	14.0	13.5
25	18.5	17.5	11.0	10.0	6.5	6.0	4.0	2.0	8.0	7.5	14.0	13.5
26	18.5	17.5	11.0	10.5	6.5	5.5	3.0	2.0	9.0	8.0	14.5	13.5
27	18.0	17.0	11.5	11.0	6.0	5.5	3.5	2.5	9.5	9.0	14.5	14.0
28	17.0	16.5	12.0	11.5	6.5	6.0	3.5	2.5	10.0	9.5	15.0	14.5
29	17.0	16.5	11.5	9.5	6.0	5.5	3.5	3.0	---	---	15.5	14.5
30	16.5	16.0	10.0	9.5	6.0	5.5	3.5	3.0	---	---	15.5	15.0
31	16.0	15.5	---	---	6.0	5.0	3.5	2.5	---	---	16.0	15.5
MONTH	24.5	15.5	16.0	9.5	10.0	5.0	5.5	2.0	10.0	2.5	16.0	9.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	16.0	16.0	20.5	19.5	25.0	24.0	27.5	26.0	29.0	26.5	30.0	29.0
2	16.0	16.0	20.5	19.5	25.5	24.0	28.0	27.0	28.5	26.5	29.5	28.5
3	16.5	16.0	20.0	19.5	25.5	24.5	28.0	27.0	28.0	27.0	29.0	28.5
4	16.5	16.0	20.5	19.5	26.0	24.5	27.5	27.0	28.0	28.0	29.0	28.5
5	16.5	16.0	21.0	20.0	26.0	25.0	28.0	26.0	28.5	27.0	29.0	28.0
6	16.0	16.0	21.5	20.5	25.0	24.5	28.0	26.5	28.5	27.5	28.5	28.0
7	16.0	16.0	21.5	20.5	25.0	24.5	29.0	27.5	29.0	27.5	28.0	27.0
8	16.0	15.5	22.0	21.5	25.0	24.0	29.5	28.0	28.5	28.0	28.5	26.5
9	16.0	15.5	23.0	21.5	25.0	24.0	30.0	28.5	---	---	28.5	27.0
10	16.5	16.0	22.0	21.0	25.0	24.0	30.5	28.5	---	---	28.0	27.5
11	16.5	16.0	22.0	20.5	25.5	24.5	30.5	29.0	---	---	28.0	27.0
12	17.0	16.5	22.5	21.0	27.5	25.0	29.5	27.5	---	---	28.0	27.0
13	17.5	17.0	22.5	21.0	27.5	24.5	28.5	26.5	---	---	28.0	27.0
14	17.5	17.0	24.0	21.5	25.5	25.0	28.0	26.5	---	---	28.0	26.5
15	18.0	17.5	24.0	21.5	25.5	24.0	28.5	27.5	---	---	28.0	26.5
16	18.5	18.0	23.5	21.0	26.0	25.0	29.5	27.5	---	---	27.5	26.5
17	19.0	18.0	23.0	21.0	26.5	25.0	29.0	28.5	---	---	27.5	26.5
18	19.0	18.5	23.0	21.5	26.5	25.0	28.5	27.0	---	---	27.5	26.5
19	19.5	18.5	23.0	22.0	26.5	25.5	28.5	27.0	---	---	27.5	26.5
20	19.5	19.0	24.0	22.0	26.5	25.5	28.0	27.0	---	---	27.5	26.5
21	19.5	19.0	23.5	23.0	26.5	25.0	29.0	27.0	---	---	27.5	26.0
22	19.5	19.5	23.5	23.0	27.5	25.5	28.5	27.5	---	---	27.5	26.5
23	20.5	19.0	24.0	20.5	26.5	25.5	28.5	28.0	---	---	27.5	26.5
24	20.0	19.0	24.0	23.0	27.0	26.0	29.5	27.0	---	---	27.5	26.5
25	20.5	19.5	24.0	23.0	28.5	26.5	28.5	27.0	---	---	28.0	27.0
26	20.0	19.0	24.0	22.5	28.0	27.0	28.5	27.5	29.0	28.5	27.0	25.5
27	20.5	19.5	24.0	22.5	27.5	26.0	28.5	27.5	29.0	28.5	27.0	26.5
28	20.0	19.0	24.5	23.5	28.5	26.0	28.5	27.5	29.0	27.5	27.0	26.0
29	20.0	18.5	24.0	22.5	27.5	26.5	28.0	27.0	29.5	28.5	27.0	26.0
30	20.5	19.0	24.5	23.0	27.5	26.5	28.0	26.0	29.5	28.0	26.5	25.5
31	---	---	25.0	24.0	---	---	29.0	27.5	29.5	28.5	---	---
MONTH	20.5	15.5	25.0	19.5	28.5	24.0	30.5	26.0	29.5	26.5	30.0	25.5

02408500 HATCHET CREEK NEAR ROCKFORD, AL

LOCATION.--Lat 32°56'42", long 86°13'06", in NW¼ sec. 31, T. 23 N., R. 19 E., Coosa County, Hydrologic Unit 03150107, near left bank on downstream side of county road bridge, 1 mi (2 km) downstream from U.S. Highway 231, 1.5 mi (2.4 km) downstream from Socapatoy Creek, and 4 mi (6 km) north of Rockford.

DRAINAGE AREA.--244 mi^2 (632 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1944 to current year.

REVISED RECORDS.--WSP 1384: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 449 ft (136.9 m), from topographic map. Prior to Dec. 9, 1944, nonrecording gage at same site. Prior to Oct. 1, 1964 at datum 1.00 ft (0.305 m) higher.

REMARKS.--Water-discharge record good.

AVERAGE DISCHARGE.--33 years, 387 ft^3/s (10.96 m^3/s), 21.54 in/yr (547 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,800 ft^3/s (646 m^3/s) Jan. 6, 1946, gage height, 25.9 ft (7.89 m); minimum, 7 ft^3/s (0.20 m^3/s) Oct. 5, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,800 ft^3/s (108 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 12	2200	9600	272	18.78	5.723	Mar. 30	unknown	*15600	442	*21.72	5.724

Minimum discharge, 42 ft^3/s (1.19 m^3/s) Aug. 12, 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	109	188	252	256	560	1620	309	157	117	105	42
2	78	88	157	216	243	439	1170	294	147	139	90	41
3	72	80	143	334	237	280	1070	289	139	105	165	37
4	68	77	132	432	235	854	1120	282	134	98	145	37
5	66	74	125	348	226	764	2310	271	128	80	102	42
6	66	72	127	323	211	1000	1280	260	124	76	76	62
7	72	72	221	739	204	938	962	248	123	78	80	88
8	74	71	252	504	201	658	822	246	115	66	63	105
9	76	70	188	1280	199	535	732	295	112	64	66	84
10	73	73	161	2450	195	469	671	239	107	63	56	73
11	70	76	169	824	192	446	626	226	103	75	56	72
12	67	91	480	582	196	3660	584	218	118	78	50	66
13	64	90	810	456	298	4740	555	214	134	72	47	153
14	62	93	423	571	265	1300	521	203	110	76	46	551
15	60	506	322	576	229	881	495	201	100	64	43	159
16	59	230	278	431	210	708	472	193	98	63	46	318
17	65	142	228	352	204	597	449	186	98	58	55	496
18	63	118	201	321	202	543	432	179	178	63	73	265
19	61	106	184	312	199	493	422	175	230	75	76	150
20	61	104	227	284	192	476	406	170	132	75	64	130
21	59	110	285	262	185	1190	390	171	127	66	58	110
22	59	99	224	247	182	2280	508	273	108	68	53	110
23	59	95	201	238	234	981	783	371	138	68	50	100
24	60	93	186	424	2000	714	514	257	106	57	46	96
25	72	94	646	479	1000	595	429	206	112	56	60	92
26	114	99	1500	349	520	519	386	194	103	77	76	120
27	93	118	640	313	900	475	363	190	110	92	83	140
28	80	275	421	341	700	662	342	228	96	102	66	120
29	72	522	321	334	---	1630	329	221	83	182	55	140
30	95	269	262	275	---	7390	323	185	88	300	49	150
31	143	---	260	269	---	4240	---	167	---	146	44	---
TOTAL	2272	4116	9962	15118	10115	41017	21086	7161	3658	2799	2144	4149
MEAN	73.3	137	321	488	361	1323	703	231	122	90.3	69.2	138
MAX	143	522	1500	2450	2000	7390	2310	371	230	300	165	551
MIN	59	70	125	216	182	280	323	167	83	56	43	37
CFSM	.30	.56	1.32	2.00	1.48	5.42	2.88	.95	.50	.37	.28	.57
IN.	.35	.63	1.52	2.30	1.54	6.25	3.21	1.09	.56	.43	.33	.63

CAL YR 1976 TOTAL 194333 MEAN 531 MAX 16600 MIN 59 CFSM 2.18 IN 29.63
WTR YR 1977 TOTAL 123597 MEAN 339 MAX 7390 MIN 37 CFSM 1.39 IN 18.84

02408500 HATCHET CREEK NEAR ROCKFORD, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1970 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water years 1968 and 1969.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
NOV											
08...	71	54	7.2	8.0	--	--	--	--	--	--	--
MAR											
25...	604	43	7.1	12.5	12.4	11	0	3.1	.8	4.3	.6
AUG											
26...	84	54	7.2	27.0	8.0	16	1	4.1	1.4	--	--

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)
NOV											
08...	--	20	0	--	.8	--	--	--	--	--	--
MAR											
25...	1.3	17	0	3.2	2.2	.0	9.9	35	57.1	.36	1.6
AUG											
26...	1.1	19	0	--	2.6	.0	10	--	--	.03	.13

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
NOV										
08...	--	--	--	--	--	--	--	--	--	--
MAR										
25...	1	1	ND	1	170	1	11	<.2	50	120
AUG										
26...	ND	ND	ND	<1	90	ND	28	.6	40	70

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT			
05...	66	43	19.5
DEC			
17...	234	42	7.5
JAN			
20...	300	32	2.0
MAR			
02...	430	35	8.0

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
APR			
13...	524	38	18.0
MAY			
25...	198	39	21.5
JUL			
08...	64	47	28.5
AUG			
15...	42	47	27.0

02410000 PATERSON CREEK NEAR CENTRAL, AL

LOCATION.--Lat 32°40'54", long 86°07'40", on line between secs. 25 and 36, T. 20 N., R. 19 E., Elmore County, Hydrologic Unit 03150107, near right bank on upstream side of bridge on county road, 2 mi (3 km) west of Central, and 11 mi (18 km) northeast of Wetumpka.

DRAINAGE AREA.--4.95 mi^2 (12.82 km^2).

PERIOD OF RECORD.--October 1953 to current year. Prior to October 1962, published as Sofkahatchee Creek near Wetumpka.

REVISED RECORDS.--WSP 1554: 1947(M). WSP 1906: Drainage area. WSP 2106: 1961(M), 1961(P), 1964(M).

GAGE.--Water-stage recorder. Concrete control since Oct. 24, 1953. Altitude of gage is 440 ft (134 m) by barometer.

REMARKS.--Records good except those for period of no gage height record, Nov. 17 to Dec. 17, which are poor. Records of specific conductance and water temperature for the water year 1977 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--24 years, 7.08 ft^3/s (0.200 m^3/s), 19.42 in/yr (493 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,310 ft^3/s (122 m^3/s) Aug. 2, 1969, gage height, 10.10 ft (3.078 m); minimum daily, 0.02 ft^3/s (0.001 m^3/s) Sept. 25, Oct. 3-5, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 228 ft^3/s (6.46 m^3/s) Mar. 12, gage height, 2.76 ft (0.841 m), no peak above base of 400 ft^3/s (11.33 m^3/s); minimum, 0.59 ft^3/s (0.017 m^3/s) Sept. 2, 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	2.6	3.4	5.6	6.8	9.6	17	4.8	2.6	3.9	1.7	.94
2	2.0	2.4	3.1	5.6	6.8	9.6	14	4.8	2.4	3.2	2.2	.85
3	2.0	2.4	2.9	14	7.2	8.6	11	4.8	2.4	2.2	2.4	.80
4	2.0	2.4	2.8	10	7.2	25	13	4.5	2.2	1.7	1.7	1.1
5	1.9	2.2	2.7	8.6	6.4	28	15	4.8	1.9	1.6	1.5	1.9
6	2.2	2.2	2.8	11	6.4	40	9.6	4.5	1.9	1.5	1.4	2.3
7	2.6	2.2	4.0	13	6.0	27	11	4.5	1.9	1.4	1.4	2.5
8	2.4	2.2	4.5	9.6	6.0	17	9.6	4.2	1.7	2.2	1.3	2.1
9	2.6	2.0	3.3	24	6.0	14	8.6	4.5	1.7	2.1	1.6	2.0
10	2.4	2.0	2.8	21	6.0	12	8.1	4.2	1.6	1.7	1.4	2.1
11	2.2	2.0	3.0	13	6.0	9.6	7.7	3.9	1.7	2.6	1.3	2.2
12	2.0	2.6	9.0	10	6.4	61	7.7	3.9	2.2	2.2	1.2	3.2
13	1.9	2.2	17	9.1	7.2	31	7.2	3.7	2.2	1.6	1.1	3.5
14	1.9	3.7	8.0	18	6.0	18	6.8	3.7	2.0	1.5	1.0	3.4
15	1.9	9.1	5.5	9.6	5.6	14	6.8	3.4	2.0	1.5	1.0	3.2
16	1.9	3.0	3.6	8.4	5.6	12	6.4	3.4	2.2	1.4	.96	8.6
17	2.4	2.5	3.6	8.0	5.6	9.1	6.0	3.2	2.6	1.4	.95	5.4
18	2.2	2.4	6.0	7.8	5.6	10	6.0	3.2	3.4	2.1	1.1	2.9
19	2.2	2.3	5.6	7.7	5.2	9.1	6.0	3.0	7.2	1.9	1.3	3.2
20	2.4	2.2	6.8	7.5	5.2	11	6.0	3.0	4.2	1.8	1.5	3.0
21	2.2	2.4	5.6	6.8	5.2	14	5.6	3.0	3.2	1.5	1.3	2.4
22	2.2	2.2	5.2	6.8	5.2	11	11	7.2	2.8	1.3	1.2	2.2
23	2.2	2.2	5.2	6.4	8.6	9.6	11	4.5	2.8	1.2	1.1	2.1
24	2.2	2.2	4.8	9.6	38	9.6	7.7	3.7	3.0	1.0	1.1	2.1
25	4.8	2.3	40	7.7	12	9.1	6.8	3.4	2.6	.97	1.2	2.1
26	2.8	2.5	24	7.2	10	8.6	6.0	3.4	2.8	1.0	1.6	2.4
27	2.2	3.5	13	7.7	22	8.6	5.6	3.2	2.4	1.8	1.9	2.7
28	1.9	6.8	9.6	8.6	14	18	5.6	4.5	2.0	5.8	1.4	2.6
29	2.0	10	8.1	7.7	---	18	5.2	3.4	1.9	4.9	1.3	2.6
30	3.7	4.5	6.8	7.2	---	27	5.2	3.0	2.0	2.6	1.2	3.5
31	2.8	---	6.8	7.7	---	20	---	2.8	---	1.9	1.1	---
TOTAL	72.3	93.2	229.5	304.9	238.2	529.1	253.2	122.1	75.5	63.47	42.41	79.89
MEAN	2.33	3.11	7.40	9.84	8.51	17.1	8.44	3.94	2.52	2.05	1.37	2.66
MAX	4.8	10	40	24	38	61	17	7.2	7.2	5.8	2.4	8.6
MIN	1.9	2.0	2.7	5.6	5.2	8.6	5.2	2.8	1.6	.97	.95	.80
CFSM	.47	.63	1.50	1.99	1.72	3.46	1.71	.80	.51	.41	.28	.54
IN.	.54	.70	1.72	2.29	1.79	3.98	1.90	.92	.57	.48	.32	.60

CAL YR 1976 TOTAL 3314.20 MEAN 9.06 MAX 121 MIN 1.9 CFSM 1.83 IN 24.91
WTR YR 1977 TOTAL 2103.77 MEAN 5.76 MAX 61 MIN .80 CFSM 1.16 IN 15.81

02411000 COOSA RIVER AT JORDAN DAM, NEAR WETUMPKA, AL

LOCATION.--Lat 32°36'50", long 86°15'18", in S½ sec. 22, T. 19 N., R. 18 E., Elmore County, Hydrologic Unit 03150107, on right bank 0.5 mi (0.8 km) downstream from Jordan Dam, 4 mi (6 km) upstream from Corn Creek, 5.5 mi (8.8 km) northwest of Wetumpka, and at mile 18.6 (29.9 km).

DRAINAGE AREA.--10,200 mi^2 (26,400 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1912 to September 1914, December 1925 to current year. Prior to October 1936 published as "at Lock 18, near Wetumpka."

GAGE.--Water-stage recorder. Datum of gage is 141.6 ft (43.16 m) above mean sea level (levels by Alabama Power Co.). July 1912 to September 1914, nonrecording gage at site 0.2 mi (0.3 km) upstream at different datum.

REMARKS.--Water-discharge record good. Prior to June 30, 1967, Feb. 10, 1975, to date, daily discharge above 100 ft^3/s (2.83 m^3/s) computed on basis of powerplant records and flow over spillway at Jordan Dam; July 1, 1967, to Feb. 9, 1975, on the combined flow through turbines at Jordan and Bouldin Dams (on diversion channel from Jordan Lake about 1 mi (2 km) upstream from Jordan Dam) and flow over spillway at Jordan Dam. Flow regulated by several upstream reservoirs and hydroelectric plants.

COOPERATION.--Records collected by Alabama Power Co., under general supervision of Geological Survey, in connection with a Federal Power Commission project.

AVERAGE DISCHARGE.--53 years (water years 1913-14, 1927-77), 16,410 ft^3/s (464.8 m^3/s), 21.85 in/yr (555 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 298,000 ft^3/s (8,440 m^3/s) Apr. 8, 1938, gage height, 46.4 ft (14.14 m), computed on basis of powerplant records and flow over spillway; minimum daily, 54 ft^3/s (1.53 m^3/s) Oct. 15, 1938.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 157,000 ft^3/s (4,450 m^3/s) Mar. 30; minimum daily, 446 ft^3/s (12.6 m^3/s) Oct. 17, Sept. 3-5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3400	9840	17300	14500	14600	31900	74800	13900	11800	896	4470	4590
2	466	13100	15500	11500	14500	31600	68100	15200	9300	456	5340	450
3	486	11300	15900	17300	11300	31400	69000	15000	11300	1970	6020	446
4	3450	6830	7170	15900	7620	22000	77500	14600	1780	456	2600	446
5	5530	9180	1020	16300	1560	27000	101000	17000	5870	4620	7060	446
6	5680	450	9140	13800	4460	42100	112000	17000	12000	7000	2010	7680
7	5980	456	11600	14400	13200	49600	129000	17000	4950	6560	5770	4470
8	5100	6140	12200	18600	15300	40000	103000	17000	2480	4090	6860	8770
9	1960	8660	12900	33200	13300	37200	91700	18500	3320	1990	5910	8390
10	456	3830	10100	70100	7890	35200	79900	17400	2210	936	4940	6400
11	5360	6370	8920	53200	13100	30300	69900	17000	3010	496	4990	8660
12	8000	7940	14200	43000	516	63300	69200	17800	3790	4800	3000	10800
13	4020	3800	24600	35900	456	92000	64100	16600	9620	8110	586	12700
14	7270	6590	18600	40400	9440	67800	57000	1690	8660	2540	1960	12700
15	7660	9990	15600	33700	12400	59200	60300	3370	5180	2840	590	12700
16	456	11400	16900	30200	12800	56700	56600	1200	9660	456	3140	13400
17	446	7180	18100	28000	11600	50500	38500	8420	5410	490	2820	16800
18	4470	8470	14500	18600	6220	41000	37700	9410	943	3480	3110	13000
19	10100	3520	7000	18400	1130	39200	35100	4830	1260	5040	5920	13400
20	10800	613	9400	18100	576	36700	32300	6940	7380	7740	2000	17000
21	9080	596	15800	17000	12600	54400	25800	456	8480	7770	1270	13700
22	6290	9230	18600	15200	8450	96800	24300	1820	10100	3770	6140	13300
23	536	7730	18300	3900	7200	68600	20100	8400	10800	456	8080	10700
24	476	1400	16900	13200	54300	47900	17200	13200	9810	2570	8130	7250
25	5190	456	17200	16400	41200	39500	17600	7850	3090	2650	8170	4550
26	4810	2310	20800	17000	35800	35400	20200	6740	510	4930	4480	6300
27	7530	456	21400	17000	39000	30500	23300	7010	7160	4420	1070	7680
28	6540	8960	20200	17000	34400	25300	21600	1230	5030	3510	1940	5250
29	8150	14400	20200	10100	---	74500	19500	5660	536	5290	5270	10400
30	6070	17800	17000	456	---	157000	17500	10800	7190	5800	6140	17200
31	1800	---	16800	12100	---	109000	---	11300	---	4490	4700	---
TOTAL	147562	198997	463850	684456	404918	1623600	1633800	324326	182629	110622	134486	269578
MEAN	4760	6633	14960	22080	14460	52370	54460	10460	6088	3568	4338	8986
MAX	10800	17800	24600	70100	54300	157000	129000	18500	12000	8110	8170	17200
MIN	446	450	1020	456	456	22000	17200	456	510	456	586	446

CAL YR 1976 TOTAL 7234909 MEAN 19822 MAX 176000 MIN 400
WTR YR 1977 TOTAL 6178824 MEAN 16930 MAX 157000 MIN 446

MOBILE RIVER MAIN STEM

02411000 COOSA RIVER AT JORDAN DAM NEAR WETUMPKA, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1972 to current year.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
MAR											
25...	20800	100	7.3	14.0	--	32	3	8.8	2.3	3.8	.3
AUG											
24...	8200	145	7.4	29.0	5.2	49	2	13	4.0	5.9	.4

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)
MAR											
25...	1.3	36	0	7.2	2.8	.0	5.0	51	2860	.41	1.8
AUG											
24...	1.4	58	0	6.4	6.2	.1	4.6	72	1590	.32	1.4

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
MAR										
25...	2	1	1	<1	20	2	2	<.2	60	170
AUG										
24...	1	<1	ND	<1	ND	1	140	.2	70	10

MOBILE RIVER MAIN STEM

02411600 (NWS 01-8859-5) COOSA RIVER AT WETUMPKA, AL

LOCATION.--Lat 32°32'13", long 86°12'32", in sec. 13, T. 18 N., R. 18 E., Elmore County, Hydrologic Unit 03150107, on downstream side of bridge on State Highway 14, in Wetumpka, and at mile 11.45 (18.42 km).

DRAINAGE AREA.--10,200 mi^2 (26,400 km^2), approximately.

PERIOD OF RECORD.--1893 to current year (gage heights only). October 1971 to current year in reports of Geological Survey. 1900 to December 1971 in reports of National Weather Service.

GAGE.--Nonrecording gage. Datum of gage is 113.72 ft (34.662 m) above mean sea level.

COOPERATION.--Records furnished by National Weather Service.

EXTREMES (AT 0700) FOR PERIOD OF RECORD.--Maximum gage height, 57.9 ft (17.65 m) Apr. 8, 1938; minimum gage height, 2.5 ft (0.76 m) Aug. 4, 1925.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 1, 1886, reached a stage of 61.7 ft (18.81 m), from flood-marks.

EXTREMES (AT 0700) FOR CURRENT YEAR.--Maximum gage height, unknown; minimum gage height, unknown.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 0700

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								---	12.50	11.90	11.60	11.70
2								---	11.00	11.20	11.00	11.90
3								---	12.00	10.80	12.30	11.60
4								---	11.00	10.80	12.30	10.20
5								---	11.00	10.40	12.50	10.30
6								---	11.00	10.40	12.40	9.80
7								---	11.50	10.60	12.40	11.10
8								---	10.80	11.30	11.90	11.30
9								---	10.20	11.20	11.80	11.40
10								---	10.10	10.40	11.80	11.60
11								---	10.20	9.60	11.00	12.30
12								14.00	10.30	9.20	10.60	11.80
13								14.00	10.50	10.40	11.70	12.90
14								10.00	11.20	11.30	11.50	13.40
15								10.50	11.60	---	11.40	13.20
16								11.00	11.50	---	11.00	13.40
17								10.50	12.40	---	10.70	13.90
18								11.00	11.80	10.30	10.70	14.30
19								12.00	11.50	10.90	10.70	12.40
20								11.00	11.70	10.90	10.90	14.40
21								12.00	---	11.40	10.50	14.10
22								11.00	12.60	11.90	10.80	12.70
23								11.00	12.80	11.60	10.70	11.50
24								13.00	11.90	10.90	11.80	11.50
25								11.00	12.80	10.90	11.90	11.00
26								10.00	11.20	11.50	12.00	11.40
27								11.00	11.20	11.70	12.50	11.60
28								11.00	11.30	11.70	10.80	11.60
29								10.00	10.90	11.40	10.60	11.80
30								10.50	10.50	12.10	11.40	12.20
31								11.50	---	12.20	11.60	---
MEAN								---	---	---	11.45	12.08
MAX								---	---	---	12.50	14.40
MIN								---	---	---	10.50	9.80

02412000 TALLAPOOSA RIVER NEAR HEFLIN, AL

LOCATION.--Lat 33°37'22", long 85°31'20", in NW¼ sec. 20, T. 16 S., R. 11 E., Cleburne County, Hydrologic Unit 03150108, on right bank 5 ft (1.5 m) downstream from county road bridge, 2.2 mi (3.5 km) upstream from Cane Creek, 4 mi (6.4 km) southeast of Heflin, and at mile 186.8 (300.2 km).

DRAINAGE AREA.--444 mi^2 (1,150 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1952 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 830 ft (253 m), by barometer.

REMARKS.--Water-discharge records fair. Slight diurnal fluctuation caused by small mills above station.

AVERAGE DISCHARGE.--25 years, 697 ft^3/s (19.74 m^3/s), 21.33 in/yr (542 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,500 ft^3/s (920 m^3/s) Mar. 31, 1977, gage height, 31.34 ft (9.552 m); minimum daily, 13 ft^3/s (0.37 m^3/s) Oct. 9, 10, 13, 14, 20-22, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,000 ft^3/s (113 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 11	0300	5200	147	15.16	4.621	Mar. 31	0200	*32500	920	*31.34	9.552
Mar. 14	1000	6490	184	17.27	5.264	Apr. 6	1400	7110	201	18.16	5.535
Mar. 23	0400	6060	172	16.60	5.060						

Minimum discharge, 102 ft^3/s (2.89 m^3/s) July 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	207	267	571	523	525	1080	21200	819	486	217	165	120
2	177	251	413	468	498	838	7510	785	461	268	147	115
3	161	228	348	477	483	737	2680	716	370	221	141	111
4	152	218	312	597	483	924	3520	676	332	222	136	107
5	149	211	292	604	484	1160	5650	636	306	196	128	106
6	150	207	299	568	467	1390	6890	605	290	184	125	108
7	157	203	687	854	441	1790	4330	578	294	179	137	117
8	339	201	868	920	425	1200	1860	712	284	175	167	140
9	536	198	622	1610	419	930	1550	642	268	170	158	139
10	343	195	461	4570	417	823	1340	566	253	161	133	133
11	253	198	400	4100	415	789	1210	524	242	145	126	126
12	216	219	561	1310	440	2060	1120	506	233	131	118	120
13	199	226	937	890	730	5900	1050	488	227	122	116	115
14	189	230	879	865	781	6270	1010	474	222	120	114	114
15	186	302	684	1060	645	2300	963	460	217	118	115	130
16	181	318	646	921	546	1190	918	450	213	117	117	148
17	176	286	580	742	496	989	882	428	225	114	136	267
18	175	260	483	665	472	892	852	407	263	111	189	207
19	171	244	425	664	461	828	837	397	302	110	192	170
20	169	238	464	654	448	811	809	382	341	108	162	172
21	171	236	670	637	431	1950	775	369	255	107	154	161
22	171	232	615	617	416	5760	814	376	233	105	148	180
23	169	226	491	559	423	5270	1200	488	237	105	142	154
24	169	221	432	691	2630	1790	1370	555	221	104	134	132
25	182	218	565	1020	2660	1200	1060	519	217	104	159	127
26	233	222	1380	867	1160	1030	867	494	209	103	189	331
27	245	245	1180	722	1300	929	787	468	309	103	171	337
28	222	377	804	673	1670	925	741	497	262	103	158	266
29	205	947	633	659	---	4120	708	468	239	132	149	206
30	208	908	534	597	---	23400	695	409	213	224	140	176
31	254	---	499	541	---	30200	---	379	---	183	130	---
TOTAL	6515	8532	18735	30645	20766	109475	75198	16273	8224	4562	4496	4835
MEAN	210	284	604	989	742	3531	2507	525	274	147	145	161
MAX	536	947	1380	4570	2660	30200	21200	819	486	268	192	337
MIN	149	195	292	468	415	737	695	369	209	103	114	106
CFSM	.47	.64	1.36	2.23	1.67	7.95	5.65	1.18	.62	.33	.33	.36
IN.	.55	.71	1.57	2.57	1.74	9.17	6.30	1.36	.69	.38	.38	.41

CAL YR 1976 TOTAL 321421 MEAN 878 MAX 13100 MIN 148 CFSM 1.98 IN 26.93
WTR YR 1977 TOTAL 308256 MEAN 845 MAX 30200 MIN 103 CFSM 1.90 IN 25.83

02412000 TALLAPOOSA RIVER NEAR HEFLIN, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968-73, October 1976 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965, 1966, 1968, 1974-76.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
NOV											
15...	331	46	7.0	6.0	12.0	13	0	2.7	1.4	3.0	.4
DEC											
16...	626	37	6.9	7.0	12.1	12	0	2.4	1.3	2.8	.4
JAN											
26...	888	36	6.1	2.0	--	9	6	2.1	.9	2.5	.4
MAR											
09...	983	34	6.2	8.5	12.0	9	0	2.0	.9	2.3	.3
APR											
21...	752	32	6.9	18.0	8.6	11	0	2.9	.9	2.4	.3
JUN											
06...	292	35	6.4	24.0	9.3	15	2	4.0	1.1	2.6	.3
JUL											
18...	90	39	6.6	27.0	8.5	13	0	3.4	1.2	2.4	.3
AUG											
25...	170	37	7.0	26.5	7.6	10	0	1.8	1.2	3.0	.4

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)
NOV											
15...	1.3	16	0	3.0	3.6	.1	9.6	33	29.5	.08	.36
DEC											
16...	.9	15	0	3.0	1.8	.0	11	31	52.4	.12	.54
JAN											
26...	.8	4	0	3.2	1.6	.2	7.4	26	62.3	1.2	5.2
MAR											
09...	.6	11	0	3.6	2.0	.0	8.7	26	69.0	.10	.45
APR											
21...	.6	14	0	2.0	1.6	.0	7.5	25	50.8	.05	.24
JUN											
06...	.8	16	0	1.6	1.8	.0	6.6	27	21.3	.19	.83
JUL											
18...	.9	17	0	1.2	2.4	.0	10	30	7.29	.01	.03
AUG											
25...	.9	13	0	2.4	2.4	.0	8.5	27	12.4	.16	.71

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
NOV										
15...	1	<1	<1	<1	260	1	48	<.2	50	<5
DEC										
16...	1	<1	ND	<1	250	1	46	.2	30	10
JAN										
26...	<1	<1	ND	1	180	<1	47	<.2	20	20
MAR										
09...	1	<1	ND	<1	320	1	43	<.2	10	10
APR										
21...	1	<1	ND	<1	170	2	30	.2	30	50
JUN										
06...	1	<1	ND	1	300	<1	31	<.2	10	10
JUL										
18...	ND	<1	ND	1	350	1	89	<.2	10	<5
AUG										
25...	ND	ND	ND	<1	320	ND	140	.2	20	20

02413300 LITTLE TALLAPOOSA RIVER NEAR NEWELL, AL

LOCATION.--Lat 33°26'14", long 85°23'57", in SW¼ sec. 21, T. 18 S., R. 12 E., Randolph County, Hydrologic Unit 03150108, near right bank on downstream side of bridge on County Highway 82, 1.0 mi (1.6 km) upstream from Cut Nose Creek, and 2.0 mi (3.2 km) east of Newell.

DRAINAGE AREA.--401 mi^2 (1,038 km^2).

PERIOD OF RECORD.--May 1975 to current year.

GAGE.--Water-stage recorder. Datum of gage is 813.96 ft (248.095 m) above mean sea level.

REMARKS.--Records good. Low flow is affected by regulation from grist mill located 3.2 mi (5.1 km) upstream. Records of specific conductance and water temperature for the water year 1977 are published under miscellaneous water-quality sites in this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,100 ft^3/s (399 m^3/s) Mar. 16, 1976, gage height, 18.18 ft (5.541 m); minimum daily, 66 ft^3/s (1.87 m^3/s) Sept. 2, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of February 1975 reached a stage of 19.3 ft (5.88 m) from information by local resident.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,000 ft^3/s (113 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 12	2400	5110	145	11.87	3.618	Mar. 30	0100	*8510	241	*15.82	4.822
Mar. 21	2400	4790	136	11.42	3.481	Apr. 5	0200	4020	114	10.32	3.146

Minimum daily discharge, 66 ft^3/s (1.87 m^3/s) Sept. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	159	271	586	521	489	1010	5380	553	341	223	174	76
2	147	226	421	458	464	766	3700	531	373	416	163	66
3	131	204	355	492	449	652	3020	518	314	286	139	81
4	120	194	322	626	449	859	2890	502	272	234	213	76
5	114	180	325	608	448	1070	3560	474	249	198	115	80
6	108	172	325	574	429	1260	2950	453	234	178	103	77
7	268	166	598	921	409	1450	2430	432	253	159	105	81
8	866	160	774	919	394	1170	1920	506	234	145	103	98
9	686	152	582	1770	379	911	1530	556	219	130	103	131
10	388	154	462	3180	376	779	1240	445	208	113	140	112
11	265	154	409	2510	375	741	1120	401	197	106	102	98
12	210	160	570	1950	383	2040	1040	384	189	103	85	89
13	184	172	1060	1370	536	3950	953	375	182	103	67	82
14	168	180	930	1020	628	3080	856	366	176	90	89	82
15	158	355	710	1000	517	2320	795	357	172	92	97	75
16	148	494	654	914	443	1640	744	347	172	90	89	86
17	146	394	550	760	407	1150	706	335	177	82	88	110
18	156	316	460	661	393	908	681	325	225	88	95	138
19	154	277	410	573	388	794	658	315	330	90	152	143
20	152	259	536	604	376	795	628	309	323	95	148	230
21	148	253	769	534	364	1930	606	305	273	95	118	214
22	148	244	619	509	354	3840	659	321	223	92	106	160
23	144	226	490	495	360	3170	968	420	209	92	98	125
24	144	214	428	706	1060	2450	992	442	246	79	95	105
25	158	192	632	973	1190	1690	812	517	199	81	95	95
26	271	182	1740	857	899	1200	676	572	205	85	103	249
27	265	204	1420	718	1100	960	607	512	347	93	117	312
28	216	391	965	653	1290	897	570	410	217	108	170	222
29	186	986	708	593	---	2510	539	373	195	160	154	198
30	186	918	608	534	---	6870	562	346	195	254	134	193
31	247	---	570	505	---	6340	---	358	---	245	108	---
TOTAL	6841	8450	19988	28508	15349	59202	43792	13060	7149	4405	3668	3884
MEAN	221	282	645	920	548	1910	1460	421	238	142	118	129
MAX	866	986	1740	3180	1290	6870	5380	572	373	416	213	312
MIN	108	152	322	458	354	652	539	305	172	79	67	66
CFSM	.55	.70	1.61	2.29	1.37	4.76	3.64	1.05	.59	.35	.29	.32
IN.	.63	.78	1.85	2.64	1.42	5.49	4.06	1.21	.66	.41	.34	.36

CAL YR 1976 TOTAL 295882 MEAN 808 MAX 12600 MIN 82 CFSM 2.02 IN 27.45
WTR YR 1977 TOTAL 214296 MEAN 587 MAX 6870 MIN 66 CFSM 1.46 IN 19.88

02414500 TALLAPOOSA RIVER AT WADLEY, AL

LOCATION.--Lat 33°07'00", long 85°33'39", in SW¼ sec. 12, T. 22 S., R. 10 E., Randolph County, Hydrologic Unit 03150109, on left bank 50 ft (15 m) upstream from bridge on State Highway 22, 1 mi (2 km) downstream from Beaver Dam Creek, and at mile 125.3 (201.6 km).

DRAINAGE AREA.--1,660 mi^2 (4,300 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1923 to current year.

GAGE.--Water-stage recorder. Datum of gage is 599.87 ft (182.840 m) above mean sea level. June 17, 1959, to Sept. 30, 1970, nonrecording gage at same site and datum. Prior to June 17, 1959, at site 0.2 mi (0.3 km) upstream at datum 1.46 ft (0.445 m) higher.

REMARKS.--Water-discharge records good. Some diurnal fluctuation during extreme low flow caused by milldams above station.

AVERAGE DISCHARGE.--54 years, 2,564 ft^3/s (72.61 m^3/s), 20.97 in/yr (533 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 66,900 ft^3/s (1,890 m^3/s) Mar. 16, 1976, maximum gage height, 27.9 ft (8.50 m), site and datum then in use, Feb. 5, 1936; minimum daily discharge, 45 ft^3/s (1.27 m^3/s) Oct. 2-4, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 61,900 ft^3/s (1,750 m^3/s) Mar. 30, gage height, 25.62 ft (7.809 m); minimum, 202 ft^3/s (5.72 m^3/s) Sept. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	788	1150	2860	2210	2230	4980	39500	2920	1680	1110	1090	358
2	817	1100	2070	2080	2160	3780	33100	2970	1660	1310	834	310
3	727	1020	1680	2070	2090	3140	21000	2820	1680	1620	714	262
4	672	887	1460	2430	2070	3690	13500	2670	1490	1240	676	214
5	632	788	1320	2560	2040	4810	19200	2570	1350	1170	614	250
6	600	743	1300	2490	1990	5510	18300	2470	1320	1170	566	250
7	923	734	1650	3300	1920	6920	16000	2370	1240	1180	529	310
8	1060	707	2610	3800	1860	5980	11000	2340	1250	801	499	343
9	1570	770	2640	4120	1820	4570	7240	2650	1180	816	499	361
10	1800	717	2110	12000	1800	3950	6120	2470	1120	828	499	419
11	1340	743	1810	8340	1770	3470	5450	2240	1070	721	521	416
12	1060	770	2110	7130	1770	6760	5010	2160	1070	670	460	361
13	887	770	3890	4980	2190	22400	4720	2090	1060	637	396	324
14	815	842	3800	4190	2600	16600	4410	2020	971	636	352	292
15	752	1920	3170	4140	2530	13400	4150	1970	924	616	317	298
16	716	1820	2680	3920	2220	7180	3920	1920	911	577	351	310
17	716	1630	2340	3330	2020	5130	3750	1870	920	562	373	415
18	690	1390	2140	2890	1930	4310	3590	1810	1320	535	445	576
19	690	1200	1890	2570	1870	3780	3480	1760	1250	540	544	657
20	700	1100	1840	2470	1820	3560	3360	1760	1360	552	558	690
21	700	1080	2370	2370	1770	6480	3250	1760	1390	524	556	718
22	700	1040	2600	2270	1740	23200	3200	1760	1160	505	483	624
23	707	1000	2270	2180	1720	16600	4110	1940	1090	492	432	522
24	680	953	1970	2510	5670	12700	4460	2190	1560	492	385	490
25	743	924	2040	3480	8290	7090	4280	2230	1170	462	520	415
26	1010	914	6010	3680	5780	5370	3590	2310	1030	480	493	773
27	1020	953	5790	3160	4620	4540	3200	2610	1170	567	571	3060
28	990	1420	4330	2920	5720	4190	3000	2210	1500	587	539	1890
29	905	2920	3160	2760	---	8860	2870	2020	1170	1330	485	1170
30	941	3480	2560	2520	---	50100	2830	1920	1130	2530	465	1180
31	1140	---	2350	2360	---	53000	---	1750	---	1390	417	---
TOTAL	27491	35485	80820	111230	76010	326050	261590	68550	37196	26650	16183	18258
MEAN	887	1183	2607	3588	2715	10520	8720	2211	1240	860	522	609
MAX	1800	3480	6010	12000	8290	53000	39500	2970	1680	2530	1090	3060
MIN	600	707	1300	2070	1720	3140	2830	1750	911	462	317	214
CFSM	.53	.71	1.57	2.16	1.64	6.34	5.25	1.33	.75	.52	.31	.37
IN.	.62	.80	1.81	2.49	1.70	7.31	5.86	1.54	.83	.60	.36	.41

CAL YR 1976 TOTAL 1357060 MEAN 3708 MAX 52800 MIN 600 CFSM 2.23 IN 30.41
WTR YR 1977 TOTAL 1085513 MEAN 2974 MAX 53000 MIN 214 CFSM 1.79 IN 24.33

02414500 TALLAPOOSA RIVER AT WADLEY, AL--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.24	3.76	5.19	4.71	4.73	6.57	20.71	5.24	4.28	3.71	3.69	2.92
2	3.28	3.71	4.60	4.61	4.67	5.83	18.56	5.28	4.27	3.89	3.43	2.85
3	3.18	3.62	4.28	4.60	4.62	5.40	13.64	5.17	4.28	4.15	3.30	2.77
4	3.12	3.50	4.10	4.88	4.60	5.76	10.47	5.06	4.13	3.82	3.25	2.69
5	3.08	3.40	3.98	4.98	4.58	6.48	12.87	4.99	4.01	3.76	3.19	2.75
6	3.04	3.35	3.96	4.93	4.54	6.88	12.48	4.91	3.93	3.76	3.13	2.75
7	3.47	3.35	4.25	5.51	4.48	7.64	11.49	4.84	3.91	3.76	3.08	2.85
8	3.61	3.32	5.02	5.84	4.43	7.14	9.41	4.81	3.91	3.36	3.05	2.91
9	4.06	3.40	5.04	6.02	4.40	6.32	7.79	5.05	3.85	3.38	3.05	2.93
10	4.25	3.34	4.63	9.90	4.38	5.83	7.23	4.91	3.79	3.38	3.05	3.03
11	3.87	3.38	4.39	8.23	4.36	5.62	6.86	4.74	3.73	3.27	3.09	3.02
12	3.61	3.41	4.62	7.72	4.36	7.27	6.60	4.67	3.73	3.21	3.00	2.94
13	3.43	3.42	5.90	6.58	4.69	14.28	6.42	4.62	3.72	3.17	2.92	2.89
14	3.35	3.50	5.84	6.09	5.01	11.75	6.23	4.56	3.63	3.15	2.86	2.84
15	3.28	3.48	5.42	6.06	4.96	10.45	6.07	4.52	3.57	3.13	2.81	2.86
16	3.24	4.40	5.07	5.92	4.72	7.72	5.92	4.48	3.56	3.08	2.87	2.88
17	3.24	4.24	4.78	5.53	4.56	6.67	5.81	4.44	3.57	3.05	2.90	3.03
18	3.21	4.04	4.66	5.22	4.49	6.17	5.70	4.39	3.94	3.01	3.00	3.25
19	3.21	3.87	4.46	4.99	4.44	5.83	5.63	4.35	3.88	3.02	3.15	3.35
20	3.22	3.78	4.42	4.91	4.40	5.68	5.55	4.35	3.97	3.05	3.17	3.40
21	3.22	3.76	4.84	4.84	4.36	7.20	5.47	4.35	3.99	3.01	3.17	3.43
22	3.22	3.72	5.01	4.76	4.33	14.62	5.48	4.35	3.79	2.99	3.08	3.32
23	3.23	3.68	4.76	4.69	4.32	11.76	6.04	4.50	3.72	2.98	3.00	3.19
24	3.20	3.63	4.52	4.93	6.80	10.14	6.26	4.70	4.12	2.98	2.95	3.16
25	3.27	3.60	4.58	5.63	8.27	7.70	6.15	4.73	3.79	2.95	3.12	3.05
26	3.59	3.59	7.12	5.76	7.00	6.81	5.70	4.79	3.65	2.97	3.09	3.41
27	3.61	3.63	7.04	5.41	6.35	6.31	5.44	5.01	3.77	3.09	3.19	5.41
28	3.58	4.07	6.18	5.24	7.01	6.09	5.30	4.71	4.06	3.12	3.16	4.53
29	3.50	5.24	5.40	5.13	---	8.39	5.21	4.56	3.78	3.85	3.09	3.93
30	3.54	5.63	4.98	4.95	---	22.92	5.18	4.48	3.64	4.85	3.06	3.93
31	3.75	---	4.82	4.83	---	23.85	---	4.34	---	3.96	2.99	---
MEAN	3.41	3.76	4.96	5.59	5.00	8.74	8.06	4.71	3.87	3.38	3.09	3.21
MAX	4.25	5.63	7.12	9.90	8.27	23.85	20.71	5.28	4.28	4.85	3.69	5.41
MIN	3.04	3.32	3.96	4.60	4.32	5.40	5.18	4.34	3.56	2.95	2.81	2.69

02414500 TALLAPOOSA RIVER AT WADLEY, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1969-73, October 1976 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965, 1968, 1974-76.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
NOV											
16...	1690	47	7.0	8.0	12.4	11	1	2.4	1.2	3.4	.4
DEC											
17...	2270	39	7.1	7.0	12.4	11	0	2.2	1.2	3.0	.4
JAN											
25...	3710	41	6.5	3.0	--	13	2	3.7	1.0	2.5	.3
MAR											
10...	3670	33	7.2	9.5	--	10	2	2.5	.9	2.6	.4
APR											
22...	3060	30	6.8	19.0	8.8	11	1	2.8	.9	2.5	.3
JUN											
06...	1200	42	6.0	25.0	9.4	10	3	2.1	1.1	3.2	.4
JUL											
18...	542	40	6.6	28.0	8.5	11	0	2.6	1.1	2.9	.4
AUG											
25...	574	--	6.9	27.0	7.3	9	0	1.4	1.3	3.6	.5

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)
NOV											
16...	1.4	12	0	4.2	3.6	.1	7.8	31	141	.25	1.1
DEC											
17...	1.1	16	0	2.8	2.2	.0	8.5	30	184	.22	.96
JAN											
25...	.9	14	0	2.8	1.6	.0	7.4	28	280	.45	2.0
MAR											
10...	.7	10	0	2.6	2.4	.0	7.8	25	248	.18	.78
APR											
22...	.8	12	0	1.8	1.6	.0	7.9	25	207	.19	.84
JUN											
06...	1.1	9	0	2.2	2.6	.0	5.3	25	81.0	.86	3.8
JUL											
18...	1.2	15	0	2.2	2.8	.2	8.2	29	42.4	.01	.05
AUG											
25...	1.4	12	0	3.0	3.0	.1	7.3	29	44.9	.41	1.8

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
NOV										
16...	<1	<1	<1	1	340	1	15	<.2	40	ND
DEC										
17...	1	<1	ND	<1	240	1	12	<.2	30	10
JAN										
25...	ND	<1	ND	1	100	ND	34	.2	20	40
MAR										
10...	1	<1	ND	<1	210	1	30	<.2	10	30
APR										
22...	2	<1	1	<1	170	3	4	<.2	30	60
JUN										
06...	1	<1	ND	1	260	1	2	<.2	<5	40
JUL										
18...	ND	<1	ND	1	280	1	25	.3	10	<5
AUG										
25...	ND	ND	ND	<1	50	<1	19	.2	20	10

02418500 TALLAPOOSA RIVER BELOW TALLASSEE, AL

LOCATION.--Lat 32°30'45", long 85°53'21", in E½ sec. 30, T. 18 N., R. 22 E., Tallapoosa County, Hydrologic Unit 03150110, on left bank, 1.5 mi (2.4 km) downstream from Benjamin Fitzpatrick Highway bridge and Thurlow Dam at Tallassee, 3.5 mi (5.6 km) upstream from Uphapee Creek, and at mile 48.1 (77.4 km).

DRAINAGE AREA.--3,320 mi^2 (8,600 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 162.03 ft (49.387 m) above mean sea level (levels by Alabama Power Co.).

REMARKS.--Water-discharge record fair. Daily discharge computed on basis of powerplant records, flow over spillway, and measured leakage. Flow regulated by Lake Martin (station 02417500) and hydroelectric plants above station.

COOPERATION.--Records collected by Alabama Power Co., under general supervision of Geological Survey, in connection with a Federal Power Commission project.

AVERAGE DISCHARGE.--49 years, 4,870 ft^3/s (137.9 m^3/s), 19.92 in/yr (506 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 128,000 ft^3/s (3,620 m^3/s) Feb. 25, 1961, gage height, 50.4 ft (15.36 m), computed on basis of powerplant records and flow over spillway, maximum gage height, 51.35 ft (15.651 m) Mar. 15, 1929; minimum daily discharge, 10 ft^3/s (0.28 m^3/s) June 3, 1930, May 17, 1931.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 64,200 ft^3/s (1,820 m^3/s) Mar. 31; minimum daily, 70 ft^3/s (1.98 m^3/s) for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1050	4900	7600	6670	6350	3840	61400	70	2410	2140	3100	1690
2	70	4680	6630	3270	5910	4190	40200	3090	4550	1600	2100	1960
3	70	424	6340	6300	5390	3780	32900	4100	5570	70	2810	70
4	3750	2830	1930	5570	6140	5170	17000	4020	4080	2050	4910	70
5	1550	3670	950	5950	3460	2880	21800	4850	3030	1060	3680	70
6	70	765	6220	6340	70	4450	21000	3480	4870	1800	5420	1620
7	1820	70	6020	7250	5670	6110	15700	4130	1830	2360	390	70
8	700	6010	6160	5100	5330	6300	16700	899	1830	420	3630	749
9	1170	5670	7420	5680	5330	6870	15600	3310	2110	828	3400	849
10	70	2140	5200	9070	2500	6570	14200	3080	3280	440	4150	120
11	558	5420	4850	9780	162	8000	13700	3060	916	2820	4070	1030
12	2490	5960	3740	9910	70	8960	11000	3510	845	1590	3980	1100
13	360	3630	5880	9510	70	9630	10300	4200	4640	3320	3450	2650
14	330	2190	7820	9500	5730	9800	8960	628	4820	2610	1110	2420
15	2210	5350	6130	9500	4130	9680	7710	1740	3330	1360	4480	2660
16	70	5180	7920	9500	6050	9590	6160	2840	3900	2410	2220	682
17	70	6180	6120	9030	3620	9550	2280	3910	3900	1420	1050	2280
18	5380	5640	7000	6040	740	9510	5890	3890	2880	220	982	420
19	5330	4160	1790	9000	950	8580	5380	3410	2060	1140	1970	4410
20	5350	860	5960	8390	1150	8000	5250	3060	5040	2090	1320	4030
21	5190	70	6030	8000	3130	5910	5830	2370	4710	3200	3250	3940
22	2010	5290	6000	7440	660	9060	7180	1390	5500	3150	2750	3510
23	80	3940	6330	1430	2400	9980	5600	2020	4520	1800	2100	1130
24	70	2790	6960	6170	3500	10500	1740	1210	4260	70	2460	70
25	1720	70	4900	6250	3920	10500	5980	70	4050	3900	2000	70
26	220	1960	7830	7020	3930	10400	7530	510	2830	1810	782	2490
27	2350	70	9350	6730	1930	9320	5620	445	4120	1620	2380	2850
28	1500	2350	7830	7400	2950	8430	4960	70	3640	70	1720	2200
29	2970	6420	8000	6800	---	9740	4980	70	2040	1130	2070	670
30	520	8650	6410	2750	---	16600	3760	4210	3160	1100	2020	1050
31	494	---	6850	6100	---	64200	---	4030	---	70	2460	---
TOTAL	49592	107339	188170	217450	91242	306100	386310	77672	104721	49668	82214	46930
MEAN	1600	3578	6070	7015	3259	9874	12880	2506	3491	1602	2652	1564
MAX	5380	8650	9350	9910	6350	64200	61400	4850	5570	3900	5420	4410
MIN	70	70	950	1430	70	2880	1740	70	845	70	390	70

CAL YR 1976 TOTAL 2182005 MEAN 5962 MAX 36400 MIN 66 MEAN‡ 5933 CFSM‡ 1.79 IN‡ 24.32
WTR YR 1977 TOTAL 1708318 MEAN 4680 MAX 64200 MIN 70 MEAN‡ 4694 CFSM‡ 1.41 IN‡ 19.19

‡ Adjusted for change in contents in Lake Martin.

02418500 TALLAPOOSA RIVER BELOW TALLASSEE, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1969 to September 1973, September 1974 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water years 1968 and 1969.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
MAR											
24...	10500	44	6.6	10.0	12.2	10	0	2.5	1.0	3.6	.5
AUG											
24...	90	40	6.4	22.0	7.9	9	0	1.8	1.1	2.7	.4

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)
MAR											
24...	.9	14	0	3.6	2.6	.0	8.5	30	850	--	--
AUG											
24...	1.0	12	0	2.2	3.6	.1	8.7	28	6.80	.30	1.3

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
MAR										
24...	1	1	1	<1	10	1	10	.2	50	320
AUG										
24...	ND	1	ND	<1	40	1	220	.3	40	10

02419000 UPHAPEE CREEK NEAR TUSKEGEE, AL

LOCATION.--Lat 32°28'36", long 85°41'42", on east line of sec. 12, T. 17 N., R. 23 E., Macon County, Hydrologic Unit 03150110, on left bank at downstream side of bridge on State Highway 81, 1 mi (2 km) upstream from Red Creek, 1.2 mi (1.9 km) upstream from bridge on Western Railway of Alabama, and 4 mi (6 km) north of Tuskegee.

DRAINAGE AREA.--330 mi^2 (855 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1939 to September 1970. Flood hydrograph, water years 1971-74. October 1974 to current year.

REVISED RECORDS.--WSP 1384: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 223.65 ft (68.169 m) above mean sea level.

REMARKS.--Water-discharge record fair. Occasional diurnal fluctuation at low flows caused by small plant above station.

AVERAGE DISCHARGE.--34 years (water years 1940-70, 1975-77), 440 ft^3/s (12.46 m^3/s), 18.11 in/yr (460 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,200 ft^3/s (912 m^3/s) Apr. 9, 1964, gage height, 28.18 ft (8.589 m); minimum daily discharge, 1939-70, 1974-75, 0.8 ft^3/s (0.023 m^3/s) Sept. 14, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1929 reached a stage of about 2 ft (0.6 m) higher than that of Apr. 9, 1964, from information by local resident.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 7,480 ft^3/s (212 m^3/s) Mar. 31, gage height, 15.35 ft (4.679 m). No other peak above base of 5,000 ft^3/s (142 m^3/s); minimum, 20 ft^3/s (0.566 m^3/s) Sept. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	102	2090	469	371	856	5180	209	89	47	154	31
2	49	84	799	951	400	504	3020	194	91	62	109	29
3	44	70	616	1490	368	513	1960	190	74	46	213	29
4	46	64	462	1390	411	954	1090	182	59	35	612	35
5	47	60	417	1080	433	1740	1680	242	53	29	924	53
6	48	58	408	1030	377	2850	1410	168	51	30	462	99
7	52	57	520	1160	325	2200	1310	140	49	33	216	92
8	133	55	669	1580	294	1430	963	135	48	27	161	78
9	317	54	1220	1410	284	939	894	140	43	27	137	67
10	172	54	676	1340	279	654	654	165	39	28	120	54
11	102	55	602	1360	263	608	605	134	34	26	91	50
12	74	65	966	1070	260	875	546	112	33	24	82	47
13	64	68	1230	622	260	2200	510	105	34	24	72	45
14	59	82	1300	1170	253	2150	462	99	34	23	64	50
15	56	366	1060	1750	231	1370	423	89	31	24	59	133
16	54	550	867	1750	225	690	391	85	32	28	59	158
17	61	366	719	924	220	570	366	89	35	33	63	197
18	74	211	563	658	213	497	344	80	29	58	64	223
19	79	170	504	526	213	456	328	73	27	56	88	191
20	73	170	488	500	202	715	304	72	28	56	105	142
21	69	180	550	456	196	951	290	72	33	52	84	118
22	71	176	574	414	192	1430	290	71	30	38	64	96
23	66	159	682	377	205	1340	290	69	31	37	53	84
24	61	131	608	494	913	1040	357	71	48	71	45	74
25	61	137	1200	651	1180	608	394	68	59	44	41	68
26	63	174	2200	588	1130	494	320	69	29	31	40	83
27	67	397	2100	447	1070	438	272	82	28	37	42	97
28	63	1160	1000	333	1090	1460	249	91	31	106	40	109
29	59	2750	800	432	---	4010	226	91	29	256	37	106
30	71	3910	700	377	---	4340	215	98	29	494	34	95
31	85	---	546	360	---	6250	---	86	---	346	32	---
TOTAL	2397	11935	27136	27159	11858	45132	25343	3571	1260	2228	4367	2733
MEAN	77.3	398	875	876	424	1456	845	115	42.0	71.9	141	91.1
MAX	317	3910	2200	1750	1180	6250	5180	242	91	494	924	223
MIN	44	54	408	333	192	438	215	68	27	23	32	29
CFSM	.23	1.21	2.65	2.66	1.29	4.41	2.56	.35	.13	.22	.43	.28
IN.	.27	1.35	3.06	3.06	1.34	5.09	2.86	.40	.14	.25	.49	.31

CAL YR 1976 TOTAL 182801 MEAN 499 MAX 7150 MIN 37 CFSM 1.51 IN 20.61
WTR YR 1977 TOTAL 165119 MEAN 452 MAX 6250 MIN 23 CFSM 1.37 IN 18.61

02419000 UPHAPEE CREEK NEAR TUSKEGEE, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1970 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water years 1968 and 1969.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
NOV											
10...	59	98	7.4	13.0	--	--	--	--	--	--	--
MAR											
24...	1200	53	6.5	12.0	11.2	19	1	5.7	1.2	3.0	.3
AUG											
24...	5.1	107	7.3	26.0	7.6	37	0	8.1	4.1	3.6	.3

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)
NOV											
10...	--	32	0	--	6.6	--	--	--	--	--	--
MAR											
24...	1.0	22	0	5.2	3.4	.0	6.8	38	123	.21	.90
AUG											
24...	2.0	47	0	1.4	5.2	.2	6.4	57	.78	.66	2.9

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
NOV										
10...	--	--	--	--	--	--	--	--	--	--
MAR										
24...	1	1	ND	1	320	3	8	.2	50	10
AUG										
24...	ND	<1	ND	<1	110	1	65	<.2	80	20

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT			
04...	40	45	21.0
DEC			
16...	809	58	11.0
JAN			
21...	467	56	4.0
MAR			
01...	985	57	7.5
MAY			
23...	69	98	25.0
JUL			
05...	28	116	30.0
AUG			
18...	66	100	26.0

02419890 (NWS 01-8038-N) TALLAPOOSA RIVER NEAR MONTGOMERY, AL

LOCATION.--Lat 32°26'23", long 86°11'44", in SE¼ sec. 19, T. 17 N., R. 19 E., Montgomery County, Hydrologic Unit 03150110, on left bank at the Clarence T. Perry (City of Montgomery) water purification plant, 4 mi (6 km) northeast of Montgomery, 2.5 mi (4.0 km) above U.S. Highway 231 bridge, and approximately 7 mi (11 km) above mouth.

DRAINAGE AREA.--4,600 mi^2 (11,900 km^2), approximately.

PERIOD OF RECORD.--October 1972 to current year (gage heights only). August 1966 to December 1970 in files of the Geological Survey. May 1972 to Sept. 30, 1972, in files of the National Weather Service.

GAGE.--Nonrecording gage. Datum of gage is 129.13 ft (39.359 m) above mean sea level.

REMARKS.--Flow is regulated by Lake Martin (station 02417500) and hydroelectric plants above station.

COOPERATION.--Records furnished by National Weather Service.

EXTREMES (AT 0700) FOR PERIOD OF RECORD.--Maximum gage height, 32.6 ft (9.94 m) Apr. 2, 1977; minimum gage height, 0.6 ft (0.18 m) Oct. 13, 1974.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Feb. 26, 1961, reached a stage of 41.9 ft (12.77 m) from floodmarks.

EXTREMES (AT 0700) FOR CURRENT YEAR.--Maximum gage height, 32.6 ft (9.94 m) Apr. 2; minimum gage height, 0.9 ft (0.27 m) Oct. 18.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 0700

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.00	2.30	14.30	9.50	9.40	8.00	31.00	8.40	7.60	5.10	3.40	5.50
2	4.00	6.80	12.80	9.30	9.50	9.40	32.60	3.50	6.00	6.20	6.60	4.40
3	2.00	7.50	11.80	6.80	9.30	8.70	31.20	7.30	5.10	4.00	4.80	2.50
4	1.10	3.50	9.90	10.80	9.10	7.90	29.20	7.90	8.70	1.70	7.10	2.00
5	4.50	5.00	6.40	11.00	8.90	11.80	24.30	7.90	7.90	4.00	8.50	1.20
6	3.90	6.40	3.00	12.20	7.40	12.20	23.10	7.90	6.00	3.60	6.90	1.10
7	1.80	3.00	9.40	11.80	7.10	15.30	23.90	7.70	7.10	4.70	7.80	1.10
8	3.90	1.50	9.80	11.00	7.00	15.20	23.50	8.30	5.30	5.00	4.20	2.70
9	1.00	8.60	11.40	10.30	8.30	13.90	22.30	4.20	5.90	2.70	1.70	1.50
10	3.30	7.30	11.40	10.30	8.20	12.30	20.40	6.50	5.80	2.00	5.10	2.40
11	1.90	5.40	10.00	14.60	7.80	10.00	18.50	6.90	4.40	2.20	5.70	1.80
12	2.60	8.50	8.10	14.70	4.40	10.10	16.60	6.50	3.00	3.50	5.90	2.70
13	5.50	8.30	8.40	13.50	2.90	18.20	15.40	6.70	1.00	2.70	6.40	2.20
14	2.80	6.00	10.80	12.20	2.00	19.20	14.20	6.80	5.90	4.40	4.30	2.50
15	1.40	7.80	11.50	14.40	8.30	17.80	12.70	3.20	7.40	2.90	2.90	2.50
16	3.30	7.60	10.40	14.80	6.50	16.80	11.00	2.80	5.80	3.50	6.70	2.60
17	2.40	8.40	10.30	14.30	7.00	14.40	11.10	4.00	3.80	2.30	2.70	3.20
18	.90	8.60	9.80	12.90	6.80	13.00	5.10	6.00	7.50	3.70	2.10	3.50
19	5.80	8.60	9.80	10.10	5.70	11.90	8.10	6.40	5.60	2.60	2.50	3.30
20	7.60	7.90	6.20	11.90	3.70	11.10	9.30	6.30	6.40	1.50	3.30	6.60
21	7.40	2.50	9.60	10.20	2.70	11.60	8.70	3.50	8.20	2.20	2.90	6.40
22	7.00	3.20	9.40	9.00	5.90	11.00	8.60	3.40	8.40	2.80	2.90	6.20
23	6.70	8.40	9.50	---	4.50	16.80	9.60	4.30	8.50	4.80	4.00	4.30
24	3.40	6.00	9.70	4.90	---	16.30	9.20	5.00	8.50	2.00	2.80	3.50
25	2.80	4.80	9.20	5.30	10.90	15.00	5.50	2.60	6.50	2.60	2.30	1.90
26	1.80	2.10	8.50	9.80	10.20	7.00	9.60	2.30	6.40	3.30	2.20	1.50
27	2.30	4.20	13.10	10.00	9.50	5.00	9.50	1.40	5.00	2.10	3.80	6.30
28	3.20	2.70	14.50	9.60	9.00	11.20	8.60	2.30	5.60	2.00	5.00	3.80
29	3.80	6.40	13.70	9.00	---	15.00	7.70	2.00	6.20	2.10	3.90	4.50
30	4.90	12.40	12.50	9.80	---	21.00	8.40	1.60	6.00	4.60	3.30	2.40
31	2.80	---	9.00	6.30	---	26.40	---	8.00	---	4.80	4.80	---
MEAN	3.61	6.06	10.14	---	---	13.34	15.63	5.21	6.18	3.28	4.40	3.20
MAX	7.60	12.40	14.50	---	---	26.40	32.60	8.40	8.70	6.20	8.50	6.60
MIN	.90	1.50	3.00	---	---	5.00	5.10	1.40	1.00	1.50	1.70	1.10

MOBILE RIVER MAIN STEM

02419988 (NW 01-5550-06) ALABAMA RIVER AT MONTGOMERY, AL

LOCATION.--Lat 32°23'31", long 86°19'04", in SW¼ sec. 1, T. 16 N., R. 18 E., Montgomery County, Hydrologic Unit 03150201, on left bank of river in an abandoned pumping station of the Riverview Manufacturing Co. at 715 Shady St., in Montgomery, 9.3 mi (15.0 km) upstream from U.S. Highway 31 bridge.

DRAINAGE AREA.--15,000 mi^2 (39,000 km^2), approximately.

PERIOD OF RECORD.--December 1890 to current year (gage heights only). October 1971 to current year in reports of Geological Survey. 1900 to December 1971 in reports of National Weather Service.

GAGE.--Nonrecording gage. Datum of gage is 103.30 ft (31.486 m) above mean sea level. Prior to July 1, 1970, located 0.4 mi (0.6 km) downstream on left bank at foot of Commerce Street at same datum.

REMARKS.--Flow affected by operation of reservoirs on Etowah, Coosa, and Tallapoosa Rivers. (See reservoirs in Mobile River basin.) Stage regulated by Jones Bluff lock and dam since January 1972.

COOPERATION.--Records furnished by National Weather Service.

EXTREMES (AT 0700) FOR PERIOD OF RECORD.--Maximum gage height, 58.1 ft (17.71 m) Feb. 26, 1961, from flood-marks; minimum gage height, -4.0 ft (-1.22 m) Sept. 22, 1925.

EXTREMES (AT 0700) FOR CURRENT YEAR.--Maximum gage height, 41.8 ft (12.74 m) Apr. 1, 2; minimum gage height, 19.5 ft (5.94 m) July 12.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 0700

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.60	21.60	24.40	21.80	21.60	25.20	41.80	22.70	22.40	21.80	21.90	21.80
2	21.70	22.50	23.50	22.10	22.40	26.00	41.80	22.50	21.60	21.40	21.80	21.70
3	21.00	22.40	23.20	21.40	21.60	24.40	41.20	21.80	21.90	21.00	22.30	20.80
4	20.60	21.40	22.60	22.00	21.90	24.20	40.10	22.20	21.70	21.30	22.20	20.60
5	19.70	21.80	21.30	23.10	21.80	24.50	39.20	22.20	21.30	21.70	22.40	20.60
6	20.20	22.00	20.70	22.40	21.90	26.70	38.90	22.30	21.70	20.60	22.20	20.00
7	20.30	21.70	22.10	23.00	21.70	28.40	39.60	22.70	22.00	20.90	22.30	21.10
8	20.00	21.40	22.50	23.50	22.70	29.10	39.70	22.50	21.00	---	22.20	21.20
9	20.10	22.10	22.90	23.80	22.30	27.60	38.90	22.30	20.40	---	21.80	21.80
10	20.10	22.30	22.50	27.50	21.70	26.30	37.40	22.50	20.30	---	21.80	21.90
11	19.80	22.00	22.60	30.10	21.10	25.60	35.50	22.80	20.20	---	21.70	22.40
12	20.20	22.20	22.40	29.20	21.50	24.90	33.40	22.40	20.40	19.50	22.10	22.10
13	20.60	22.00	22.80	27.60	20.60	30.80	32.20	22.60	20.60	20.50	21.90	22.10
14	20.80	21.90	23.60	26.50	20.50	34.70	31.00	21.00	21.30	21.60	21.50	22.20
15	20.00	21.60	23.50	27.30	21.30	33.90	29.90	21.30	21.60	21.40	21.70	22.10
16	21.60	22.40	22.30	27.00	22.20	32.00	29.50	21.40	21.70	20.80	20.80	22.20
17	21.10	22.40	22.60	25.70	22.10	30.70	28.70	---	22.40	---	20.80	22.50
18	20.80	21.90	22.60	25.30	21.90	28.90	25.60	21.80	21.90	21.00	21.00	22.60
19	21.00	22.30	22.20	23.90	21.30	27.20	25.50	22.50	21.60	21.30	20.90	21.80
20	22.80	21.70	20.50	23.50	20.40	26.40	25.30	21.90	21.80	21.60	21.00	22.20
21	22.40	21.10	21.30	22.60	19.80	26.40	24.60	22.80	22.10	22.20	20.70	22.10
22	22.40	20.50	22.10	21.50	20.80	29.60	24.10	21.60	22.40	21.80	21.10	21.60
23	21.90	21.40	22.70	21.50	21.30	33.20	24.40	22.10	22.80	21.40	21.90	21.80
24	21.20	22.10	22.80	21.00	22.10	32.20	23.30	22.70	22.00	21.30	22.00	21.70
25	20.40	21.20	22.70	22.50	27.80	29.80	22.90	21.70	22.80	21.30	21.70	21.50
26	21.00	20.90	23.50	22.70	26.50	27.70	23.00	20.90	21.30	21.80	22.00	21.60
27	21.20	20.80	25.50	22.60	25.70	26.60	23.30	21.50	21.20	21.90	21.70	21.70
28	21.50	20.80	24.90	22.60	26.10	25.20	23.70	21.60	21.20	21.80	21.00	21.70
29	22.00	---	24.40	22.70	---	25.50	22.80	21.30	20.90	22.20	21.10	21.70
30	22.30	23.70	24.30	20.20	---	32.70	23.10	21.30	20.90	22.40	21.60	22.20
31	21.90	---	23.20	---	---	40.90	---	22.30	---	---	21.90	---
MEAN	21.04	---	22.85	---	22.24	28.62	31.01	---	21.51	---	21.65	21.71
MAX	22.80	---	25.50	---	27.80	40.90	41.80	---	22.80	---	22.40	22.60
MIN	19.70	---	20.50	---	19.80	24.20	22.80	---	20.20	---	20.70	20.00

MOBILE RIVER MAIN STEM

02420000 ALABAMA RIVER NEAR MONTGOMERY, AL

LOCATION.--Lat 31°24'41", long 86°24'30", in NW¼ sec. 31, T. 17 N., R. 17 E., Montgomery County, Hydrologic Unit 03150201, in pier near midstream of bridge on U.S. Highway 31, 4 mi (6 km) upstream from Autauga Creek, 6 mi (10 km) northwest of Montgomery, and at mile 287.6 (462.7 km).

DRAINAGE AREA.--15,100 mi^2 (39,100 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1899 to December 1904 (gage heights only). October 1927 to current year. Published as "at Montgomery" 1899-1903.

REVISED RECORDS.--WSP 1142: 1929.

GAGE.--Water-stage recorder. Datum of gage is 97.90 ft (29.840 m) above mean sea level. January 1899 to December 1903, nonrecording gage at site 9.3 mi (15.0 km) upstream at different datum (station 02419988). Since Mar. 27, 1951, National Weather Service nonrecording gage (station 02419988) used as an auxiliary gage.

REMARKS.--Water-discharge records poor prior to May 25 and fair thereafter. Flow regulated by reservoirs on Etowah, Coosa, and Tallapoosa Rivers. (See Reservoirs in Mobile River basin.) Since January 1972, gage in pool at Jones Bluff lock and dam. Discharge for period Oct. 1 through May 24 computed (or estimated) by combining flow of Tallapoosa River at Tallassee (station 02418500) and Coosa River at Jordan Dam near Wetumpka (station 02411000) and adjusting for inflow.

AVERAGE DISCHARGE.--50 years, 23,940 ft^3/s (678.0 m^3/s), 21.53 in/yr (547 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 283,000 ft^3/s (8,010 m^3/s) Feb. 26, 1961, maximum gage height, 60.65 ft (18.486 m) Feb. 27, 1961, minimum discharge, 2,180 ft^3/s (61.7 m^3/s) Nov. 24, 1941, minimum daily discharge, 2,420 ft^3/s (68.5 m^3/s) Nov. 24, 1941, minimum gage height, -2.2 ft (-0.67 m) Sept. 26, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1833, 62.7 ft (19.11 m) Apr. 1, 1886, from floodmarks, discharge, 322,000 ft^3/s (9,120 m^3/s) from rating curve extended above 276,000 ft^3/s (7,820 m^3/s). Flood of Mar. 30, 1888, reached a stage of 60.6 ft (18.47 m) from floodmarks, discharge, 283,000 ft^3/s (8,010 m^3/s) from rating curve extended above 276,000 ft^3/s (7,820 m^3/s). Elevations of floodmarks of both floods referred to National Weather Service gage 9.3 mi (15.0 m) upstream and transferred to present site by gage-height relation curve.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 150,000 ft^3/s (4,250 m^3/s) Apr. 7, maximum gage height, 43.58 ft (13.283 m) Apr. 1, and minimum daily discharge, 771 ft^3/s (21.8 m^3/s) Oct. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4720	15200	34900	23400	22700	39800	140000	15000	18600	7250	6410	6320
2	771	18200	26000	19300	22300	38200	142000	19200	11600	6010	8420	4450
3	767	12100	25200	30700	18500	37600	143000	20000	17300	4490	8710	3500
4	7420	9970	11300	28100	15700	31700	145000	19500	10700	3380	7700	2460
5	7310	13100	3970	27400	7090	38200	147000	23000	10700	7210	11400	2670
6	5980	1490	17300	25100	6340	60200	148000	21300	14000	8990	7760	5190
7	8050	799	20100	27200	20400	66200	150000	21800	14300	7460	11100	4950
8	6440	12400	21600	31300	22000	53100	145000	18500	7750	9020	9350	5450
9	4650	14600	26200	45600	20000	48600	140000	22600	5520	6080	9020	6720
10	1350	6230	18500	85600	11700	44900	130000	21300	5340	5370	8880	4930
11	6410	12100	16700	69500	14500	41200	110000	20700	5490	3610	7960	7260
12	10800	14200	22600	58000	1830	76400	100000	21800	4950	6320	7340	7520
13	4690	7760	36400	48400	1770	112000	90000	21300	6220	6280	4550	9230
14	7880	9170	32600	55500	16400	87900	80000	2800	10700	6110	5030	11000
15	10100	17100	26800	51600	17600	75400	70000	5540	8170	5250	4960	11000
16	785	19200	29000	48100	19900	69600	64600	4450	8260	2720	7770	11400
17	808	15100	27700	41500	16300	62800	42500	12800	11200	3450	6230	13400
18	10200	15100	24200	27800	7980	52900	45200	13700	6550	4280	5520	13600
19	15800	8490	11200	29900	3100	49900	42100	8600	4710	4170	7130	9900
20	16500	2290	17700	28900	2690	48100	39000	10300	10200	5050	5720	18800
21	14600	1530	24500	27200	16700	64900	33000	3170	10500	6110	3790	20200
22	8640	15400	27400	24600	10000	113000	32900	3550	12900	7440	8080	16700
23	932	12400	27900	7140	10600	85000	27100	10800	16600	3560	11100	15300
24	838	4820	26800	21700	62200	63400	20600	14700	12700	3890	10500	9210
25	7200	1180	27900	25800	50800	52900	25500	8250	12100	7700	10500	6720
26	5330	5100	39100	26800	45100	48200	29300	8230	4710	7740	8230	6050
27	10200	2430	40900	25800	46000	41900	30200	9280	10500	6570	5030	7380
28	8340	16900	32800	26000	42600	40700	27800	5470	12200	8200	4670	6900
29	11400	34000	32000	19000	---	103000	25600	7350	6030	5590	5580	6940
30	6930	45200	26800	5000	---	125000	22300	9370	10300	7860	6030	14500
31	2700	---	26300	19900	---	135000	---	15700	---	8220	6120	---
TOTAL	208541	363559	782370	1031840	552800	2007700	2387700	420060	300800	185380	230590	271650
MEAN	6727	12120	25240	33290	19740	64760	79590	13550	10030	5980	7438	9055
MAX	16500	45200	40900	85600	62200	135000	150000	23000	18600	9020	11400	20200
MIN	767	799	3970	5000	1770	31700	20600	2800	4710	2720	3790	2460
CFSM	.45	.80	1.67	2.21	1.31	4.29	5.27	.90	.66	.40	.49	.60
IN.	.51	.90	1.93	2.54	1.36	4.95	5.88	1.03	.74	.46	.57	.67

CAL YR 1976 TOTAL 10697410 MEAN 29230 MAX 140000 MIN 767 CFSM 1.94 IN 26.35
WTR YR 1977 TOTAL 8742990 MEAN 23950 MAX 150000 MIN 767 CFSM 1.59 IN 21.54

MOBILE RIVER MAIN STEM

02420000 ALABAMA RIVER NEAR MONTGOMERY, AL--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1969 to September 1973, September 1974 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1975 to current year.
WATER TEMPERATURES: July 1975 to current year.

INSTRUMENTATION.--Water-quality monitor since July 1975.

REMARKS.--Miscellaneous samples of chemical data published for water years 1968-69. No specific conductance and temperature data for some days due to recorder malfunction.

EXTREMES FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 176 micromhos Sept. 30, 1977; minimum, 46 micromhos Apr. 3, Aug. 7, 1977.
WATER TEMPERATURES: Maximum, 31.5°C Aug. 12-14, 1977; minimum, 2.5°C Jan. 20-21, Feb. 3, 1977.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 176 micromhos Sept. 30; minimum, 46 micromhos Apr. 3, Aug. 7.
WATER TEMPERATURES: Maximum, 31.5°C Aug. 12-14; minimum, 2.5°C Jan. 20-21, Feb. 3.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM .7UM-MF (COL./100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
OCT												
22...	18850	99	7.2	19.0	7	7.9	320	2	36	3	9.5	3.0
NOV												
19...	16700	107	7.2	13.5	7	10.0	150	76	36	0	9.6	2.9
DEC												
17...	28900	118	7.4	10.5	15	10.6	84	66	39	1	10	3.4
FEB												
03...	22900	85	7.3	4.5	15	13.3	58	21	29	4	8.0	2.3
MAR												
08...	80400	104	7.5	11.5	30	11.0	160	86	38	5	11	2.6
APR												
07...	134000	69	7.6	17.0	45	8.5	130	130	28	6	8.0	2.0
MAY												
11...	24200	85	7.1	21.0	25	7.1	140	99	32	2	8.8	2.4
JUN												
09...	610	79	7.4	24.5	15	7.6	107	12	27	2	7.2	2.2
JUL												
19...	12100	99	7.8	24.5	2	7.2	310	2	34	4	9.0	2.9
AUG												
16...	17000	88	7.5	31.0	10	8.2	58	22	29	0	7.3	2.5
SEP												
28...	7320	140	7.9	27.0	4	6.8	580	580	46	1	12	3.9

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
OCT											
22...	5.5	.4	1.4	40	0	5.3	5.1	.2	6.9	--	58
NOV											
19...	6.2	.5	1.5	45	0	6.9	6.2	.2	7.8	66	65
DEC											
17...	6.8	.5	1.2	46	0	8.5	6.0	.1	7.2	68	66
FEB											
03...	4.5	.4	1.3	31	0	5.6	4.1	.0	6.6	--	48
MAR											
08...	4.9	.3	1.3	41	0	8.8	4.7	.1	4.0	--	60
APR											
07...	2.5	.2	1.2	27	0	4.3	3.5	.0	6.1	--	43
MAY											
11...	3.1	.2	1.4	37	0	4.8	3.2	.0	6.4	--	51
JUN											
09...	3.9	.3	1.3	31	0	4.3	4.1	.0	7.3	--	48
JUL											
19...	7.3	.5	1.4	37	0	5.0	5.7	.1	7.0	64	61
AUG											
16...	6.9	.6	1.4	37	0	5.6	5.6	.1	6.8	56	54
SEP											
28...	8.8	.6	1.8	55	0	8.8	9.0	.0	6.1	72	80

02420000 ALABAMA RIVER NEAR MONTGOMERY, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS)	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	TOTAL ORGANIC CARBON (C) (MG/L)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT											
22...	2950	.12	.16	.03	--	--	--	--	10	509	97
NOV											
19...	2980	.18	.25	.03	--	--	--	2.6	7	316	80
DEC											
17...	5310	.22	.26	.07	--	--	--	--	18	1410	96
FEB											
03...	2970	.22	.25	.07	--	--	--	--	10	618	88
MAR											
08...	13000	.10	.50	.09	--	--	--	--	40	8680	81
APR											
07...	15600	.20	.38	.09	--	--	--	--	103	37300	53
MAY											
11...	3330	.27	.28	.06	--	--	--	--	22	1440	93
JUN											
09...	79.1	.20	.32	.04	559	4.10	.574	12	12	20	98
JUL											
19...	2090	.13	1.0	.07	--	--	--	5.4	10	327	98
AUG											
16...	2570	.10	.35	.04	--	--	--	--	5	229	--
SEP											
28...	1420	.18	.29	.07	--	--	--	--	12	237	88

DATE	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)
NOV											
19...	2	1	1	3	3	0	10	10	0	0	0
JUN											
09...	--	--	2	1	0	2	10	10	0	2	1
JUL											
19...	--	--	0	0	0	0	10	8	2	0	0

DATE	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	SUS-PENDED MAN-GANESE (MN) (UG/L)
NOV											
19...	0	6	4	2	430	40	38	32	6	50	40
JUN											
09...	1	2	0	2	570	90	20	0	20	70	50
JUL											
19...	0	3	1	2	430	70	4	1	3	80	50

DATE	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
NOV										
19...	10	2.6	2.5	.1	0	0	0	30	30	0
JUN										
09...	20	--	--	.0	--	--	0	0	0	0
JUL										
19...	30	--	--	.1	--	--	0	10	10	0

02420000 ALABAMA RIVER NEAR MONTGOMERY, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE	OCT 22,76		NOV 19,76		DEC 17,76		FEB 3,77	
TIME	1000		0815		0900		1200	
TOTAL CELLS/ML	310		850		250		8500	
DIVERSITY: DIVISION	1.4		1.5		1.1		0.4	
.CLASS	1.4		1.5		1.3		0.5	
..ORDER	1.6		1.8		2.2		0.6	
...FAMILY	2.0		2.2		2.8		0.7	
....GENUS	2.1		2.9		3.3		1.4	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...CHARACIACEAE								
....SCHROEDERIA	--	-	--	-	--	-	--	-
...COELASTRACEAE								
....COELASTRUM	--	-	--	-	--	-	--	-
...HYDRODICTYACEAE								
....PEDIASTRUM	88#	29	--	-	--	-	--	-
...MICRACTINIACEAE								
....GOLENKINIA	--	-	*	0	4	2	*	0
....MICRACTINIUM	--	-	--	-	--	-	210	3
...OOCYSTACEAE								
....ANKISTRODESMUS	5	2	18	2	16	6	180	2
....CHODATELLA	--	-	--	-	--	-	120	1
....DICTYOSPHAERIUM	--	-	--	-	--	-	120	1
....KIRCHNERIELLA	--	-	15	2	--	-	--	-
....OOCYSTIS	--	-	--	-	8	3	--	-
....TREUBARIA	--	-	--	-	--	-	--	-
....WESTELLA	--	-	12	1	--	-	--	-
...SCENEDESMACEAE								
....ACTINASTRUM	--	-	--	-	--	-	--	-
....CRUCIGENIA	--	-	--	-	62#	25	--	-
....SCENEDESMUS	22	7	68	8	16	6	120	1
....TETRASTRUM	--	-	12	1	--	-	--	-
..ULOTRICHALES								
...ULOTRICHACEAE								
....HORMIDIUM	--	-	--	-	27	11	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	*	0	*	0	4	2	--	-
..ZYGNEMATALES								
...ZYGNEMATACEAE								
....MOUGEOTIA	--	-	*	0	--	-	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	5	2	68	8	39#	16	1200	14
....MELOSIRA	16	5	150#	18	27	11	6300#	75
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	--	-	6	1	--	-	--	-
...CYMBELLACEAE								
....CYMBELLA	--	-	--	-	4	2	--	-
...EUNOTIACEAE								
....EUNOTIA	--	-	--	-	*	0	--	-
...FRAGILARIACEAE								
....FRAGILARIA	--	-	9	1	--	-	--	-
....SYNEDRA	--	-	--	-	4	2	*	0
...NAVICULACEAE								
....NAVICULA	11	4	37	4	4	2	*	0
....PINNULARIA	--	-	--	-	--	-	--	-
...NITZSCHIACEAE								
....NITZSCHIA	11	4	34	4	19	8	61	1
...SURIRELLACEAE								
....SURIRELLA	--	-	*	0	--	-	--	-
.CHRYSOPHYCEAE								
..CHRYSOMONADALES								
...CHROMULINACEAE								
....CHRYSOCOCCUS	--	-	--	-	12	5	*	0
CYANOPHYTA (BLUE-GREEN ALGAE)								
.MYXOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCACEAE								
....ANACYSTIS	--	-	62	7	--	-	--	-
....GOMPHOSPHAERIA	--	-	340#	40	--	-	--	-
..OSCILLATORIALES								
...OSCILLATORIACEAE								
....OSCILLATORIA	150#	48	--	-	--	-	--	-
...RIVULARIACEAE								
....RAPHIDIOPSIS	--	-	--	-	--	-	--	-

02420000 ALABAMA RIVER NEAR MONTGOMERY, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE	OCT 22,76		NOV 19,76		DEC 17,76		FEB 3,77	
TIME	1000		0815		0900		1200	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
EUGLENOPHYTA (EUGLENOIDS)								
.CRYPTOPHYCEAE								
..CRYPTOMONIDALES								
...CRYPTOCHRYSIDACEAE								
....CHROOMONAS	--	-	--	-	--	-	--	-
...CRYPTOMONODACEAE								
....CRYPTOMONAS	--	-	--	-	--	-	--	-
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUGLENA	--	-	--	-	--	-	--	-
....TRACHELOMONAS	--	-	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)								
.DINOPHYCEAE								
..PERIDINIALES								
...GLENODINIACEAE								
....GLENODINIUM	--	-	--	-	4	2	--	-

DATE	MAY 11,77	JUN 9,77	JUL 19,77
TIME	0945	1000	1430
TOTAL CELLS/ML	740	2000	1500
DIVERSITY: DIVISION	0.8	1.7	1.8
.CLASS	0.8	1.8	1.9
..ORDER	1.3	2.2	2.5
...FAMILY	1.8	2.7	3.0
....GENUS	2.5	3.4	3.7

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)						
.CHLOROPHYCEAE						
..CHLOROCOCCALES						
...CHARACIACEAE						
....SCHROEDERIA	--	-	49	2	--	-
...COELASTRACEAE						
....COELASTRUM	--	-	--	-	56	4
...HYDRODICTYACEAE						
....PEDIASTRUM	--	-	--	-	--	-
...MICRACTINIACEAE						
....GOLENKINIA	--	-	--	-	--	-
....MICRACTINIUM	47	6	--	-	--	-
...OOCYSTACEAE						
....ANKISTRODESMUS	59	8	--	-	40	3
....CHODATELLA	--	-	--	-	--	-
....DICTYOSPHAERIUM	--	-	--	-	140	10
....KIRCHNERIELLA	24	3	150	7	--	-
....OOCYSTIS	--	-	--	-	--	-
....TREUBARIA	--	-	29	1	--	-
....WESTELLA	--	-	--	-	--	-
...SCENEDESMACEAE						
....ACTINASTRUM	--	-	--	-	64	4
....CRUCIGENIA	--	-	350#	18	32	2
....SCENEDESMUS	47	6	240	12	80	5
....TETRASTRUM	--	-	--	-	8	1
..ULOTRICHALES						
...ULOTRICHACEAE						
....HORMIDIUM	--	-	--	-	--	-
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	--	-	29	1	8	1
..ZYGNEMATALES						
...ZYGNEMATACEAE						
....MOUGEOTIA	--	-	--	-	--	-
CHRYSOPHYTA						
.BACILLARIOPHYCEAE						
..CENTRALES						
...COSCINODISCACEAE						
....CYCLOTELLA	300#	40	180	9	24	2
....MELOSIRA	180#	24	380#	19	96	6
..PENNALES						
...ACHNANTHACEAE						

02420000 ALABAMA RIVER NEAR MONTGOMERY, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE TIME	MAY 11,77 0945		JUN 9,77 1000		JUL 19,77 1430	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
....ACHNANTHES	12	2	--	-	--	-
...CYMBELLACEAE						
....CYMBELLA	--	-	--	-	--	-
...EUNOTIACEAE						
....EUNOTIA	--	-	--	-	--	-
...FRAGILARIACEAE						
....FRAGILARIA	--	-	--	-	--	-
....SYNEDRA	12	2	--	-	32	2
...NAVICULACEAE						
....NAVICULA	12	2	78	4	--	-
....PINNULARIA	--	-	29	1	--	-
...NITZSCHIACEAE						
....NITZSCHIA	47	6	59	3	--	-
...SURIRELLACEAE						
....SURIRELLA	--	-	--	-	--	-
.CHRYSOPHYCEAE						
..CHRYSOMONADALES						
...CHROMULINACEAE						
....CHRYSOCOCCUS	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
.MYXOPHYCEAE						
..CHROOCOCCALES						
...CHROOCOCCACEAE						
....ANACYSTIS	--	-	220	11	180	12
....GOMPHOSPHAERIA	--	-	--	-	160	11
..OSCILLATORIALES						
...OSCILLATORIACEAE						
....OSCILLATORIA	--	-	--	-	56	4
...RIVULARIACEAE						
....RAPHIDIOPSIS	--	-	--	-	300#	20
EUGLENOPHYTA (EUGLENOIDS)						
.CRYPTOPHYCEAE						
..CRYPTOMONIDALES						
...CRYPTOCHRYSIDACEAE						
....CHROOMONAS	--	-	88	4	--	-
...CRYPTOMONODACEAE						
....CRYPTOMONAS	--	-	--	-	100	7
.EUGLENOPHYCEAE						
..EUGLENALES						
...EUGLENACEAE						
....EUGLENA	--	-	49	2	8	1
....TRACHELOMONAS	--	-	49	2	100	7
PYRRHOPHYTA (FIRE ALGAE)						
.DINOPHYCEAE						
..PERIDINIALES						
...GLENODINIACEAE						
....GLENODINIUM	--	-	--	-	--	-

02420000 ALABAMA RIVER NEAR MONTGOMERY, AL--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	115	72	127	116	123	110	127	119	96	78	112	101
2	87	66	129	101	114	109	128	111	97	81	115	106
3	70	62	132	114	118	103	125	111	94	88	111	107
4	110	65	121	114	118	111	129	113	96	90	110	104
5	111	95	121	112	119	96	130	111	97	80	104	92
6	---	---	129	118	120	113	126	108	99	81	100	88
7	95	85	130	124	122	89	126	104	89	76	105	74
8	---	---	130	122	130	90	123	102	103	65	108	94
9	---	---	134	119	115	105	124	102	106	87	108	81
10	---	---	126	87	122	111	145	123	98	83	109	104
11	---	---	118	95	113	99	137	122	98	81	108	101
12	---	---	114	91	119	97	128	122	91	76	107	99
13	---	---	114	82	124	89	123	115	89	77	113	95
14	---	---	124	93	111	81	114	111	92	80	110	93
15	---	---	121	93	127	87	118	102	106	88	91	87
16	---	---	121	83	136	117	118	100	101	78	94	89
17	---	---	131	101	133	117	105	78	92	74	99	87
18	---	---	123	118	131	121	102	90	95	88	89	83
19	---	---	119	107	132	123	101	90	87	75	88	82
20	---	---	111	86	123	116	100	92	100	81	89	82
21	---	---	114	86	120	103	97	87	101	83	86	84
22	117	101	125	102	130	105	97	88	93	88	94	86
23	113	93	123	87	138	120	94	80	96	85	108	86
24	104	92	110	74	139	126	97	79	104	88	91	84
25	120	94	138	114	137	124	95	70	110	99	85	77
26	118	105	141	123	130	111	103	89	110	100	77	72
27	105	90	123	106	133	118	95	88	110	94	71	69
28	109	96	121	96	125	119	92	89	109	94	70	67
29	120	95	127	79	121	112	97	90	---	---	70	62
30	134	116	130	96	118	115	100	90	---	---	74	62
31	122	118	---	---	122	116	93	75	---	---	77	72
MONTH	134	62	141	74	139	81	145	70	110	65	115	62

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	71	52	73	67	96	81	---	---	91	88	117	88
2	52	47	71	67	87	78	---	---	98	87	116	83
3	50	46	86	70	88	78	---	---	98	89	105	96
4	53	50	81	73	88	74	---	---	101	90	121	101
5	64	55	78	70	88	78	---	---	103	82	127	117
6	70	52	86	70	82	76	---	---	96	81	131	94
7	71	68	78	71	75	56	---	---	97	46	137	128
8	73	69	77	74	77	72	---	---	95	63	135	124
9	72	65	84	77	86	77	---	---	95	69	132	113
10	73	63	89	79	87	79	---	---	90	60	130	111
11	65	62	88	84	80	70	---	---	113	91	139	127
12	65	60	89	84	82	74	---	---	119	92	151	137
13	66	61	90	85	77	67	---	---	104	88	156	139
14	67	63	90	86	75	72	---	---	99	81	155	146
15	69	63	90	86	---	---	---	---	98	85	159	153
16	72	68	89	84	---	---	---	---	96	84	159	146
17	75	70	92	86	---	---	---	---	91	79	149	143
18	75	71	91	67	---	---	---	---	88	74	150	145
19	76	72	83	69	---	---	108	101	75	69	154	148
20	73	71	85	78	---	---	100	86	80	67	150	141
21	73	69	90	74	---	---	89	79	76	62	150	141
22	73	67	90	82	---	---	104	67	96	69	144	136
23	71	65	81	74	---	---	110	100	118	89	145	135
24	70	64	85	68	---	---	113	107	123	86	141	127
25	69	64	83	64	---	---	111	102	102	77	152	138
26	73	70	89	86	---	---	117	100	115	92	155	136
27	67	63	95	87	---	---	115	97	119	104	150	136
28	71	67	95	91	---	---	99	71	120	105	155	140
29	74	68	92	85	---	---	81	64	117	105	165	156
30	79	68	98	90	---	---	89	75	131	104	176	139
31	---	---	98	90	---	---	91	79	130	108	---	---
MONTH	79	46	98	64	96	56	117	64	131	46	176	83

02420000 ALABAMA RIVER NEAR MONTGOMERY, AL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	25.5	24.0	15.5	15.0	11.5	11.0	7.0	6.0	4.0	3.5	10.5	10.0
2	24.0	23.5	15.5	15.0	11.5	10.5	6.5	5.0	4.0	3.0	11.0	10.5
3	25.0	23.5	15.5	15.5	11.0	10.0	6.0	5.5	3.5	2.5	11.0	10.5
4	24.5	23.5	15.5	15.5	10.5	10.0	6.0	5.5	4.0	3.5	11.5	11.0
5	25.0	---	15.5	15.0	11.0	10.5	6.0	5.5	4.0	4.0	12.0	11.5
6	---	---	16.0	15.0	10.5	10.5	6.0	5.0	4.5	4.0	12.0	11.5
7	23.5	---	15.0	14.0	11.0	10.5	6.0	4.5	4.5	4.0	12.0	11.0
8	23.5	---	15.0	14.5	10.5	10.0	6.0	5.5	5.0	4.5	12.0	10.0
9	---	---	14.5	14.0	11.0	10.0	6.0	5.0	5.5	5.0	10.5	10.0
10	---	---	14.0	13.5	10.0	9.5	5.5	5.0	5.0	4.5	11.0	10.0
11	---	---	14.0	13.5	10.0	10.0	5.0	4.5	5.0	5.0	10.0	10.0
12	---	---	14.0	14.0	10.0	10.0	5.0	4.0	5.5	5.0	10.5	9.0
13	---	---	14.0	13.5	11.0	10.0	5.0	4.0	6.0	5.5	11.0	10.5
14	---	---	14.0	13.5	10.5	10.0	4.5	4.0	6.5	6.0	11.5	11.0
15	---	---	13.5	13.0	10.5	10.0	5.0	4.5	6.5	5.5	11.5	10.5
16	---	---	13.0	13.0	10.5	10.0	5.0	4.0	7.5	7.0	12.5	12.0
17	---	---	13.5	13.0	10.5	9.0	4.5	4.0	7.0	6.0	12.5	12.0
18	---	---	13.5	13.0	9.0	8.5	4.5	3.5	6.5	6.0	12.5	12.0
19	---	---	13.5	13.5	9.0	8.0	3.5	3.0	7.0	6.5	12.5	12.0
20	---	---	13.5	13.5	9.0	9.0	3.5	2.5	7.5	7.0	13.0	12.5
21	---	---	13.5	13.5	9.0	8.5	3.5	2.5	7.5	7.0	13.0	12.5
22	17.5	17.0	13.5	13.0	8.5	7.0	3.5	3.0	8.5	7.5	13.0	12.5
23	17.5	17.0	13.0	12.5	8.0	7.0	4.0	3.5	9.0	8.0	13.0	12.5
24	17.5	17.0	13.5	13.0	7.5	7.0	4.0	3.5	8.5	7.5	13.0	12.5
25	17.5	17.0	13.0	12.5	7.5	7.0	4.0	3.5	8.0	7.0	13.5	12.5
26	17.5	17.0	12.5	12.5	7.0	6.5	4.0	3.5	9.0	8.0	13.0	12.5
27	17.0	16.5	13.0	12.5	7.0	6.5	4.0	4.0	10.0	9.0	13.0	12.5
28	16.5	16.0	13.0	12.5	7.0	6.5	4.5	3.5	10.0	9.5	13.0	13.0
29	16.0	16.0	13.5	12.0	7.0	6.0	4.0	3.5	---	---	13.0	12.5
30	16.0	16.0	13.0	12.0	7.0	6.5	4.0	3.5	---	---	14.0	13.0
31	16.0	15.5	---	---	7.0	7.0	4.0	3.5	---	---	14.5	14.0
MONTH	25.5	15.5	16.0	12.0	11.5	6.0	7.0	2.5	10.0	2.5	14.5	9.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	15.0	14.5	18.5	18.0	25.5	24.5	---	---	29.0	28.0	29.5	29.0
2	14.5	14.0	19.0	18.5	25.5	24.5	---	---	29.0	28.5	31.0	29.0
3	15.0	14.5	18.5	18.5	25.0	24.0	---	---	29.0	28.0	29.5	29.0
4	15.5	15.0	19.0	18.5	25.5	24.5	---	---	29.0	28.5	29.5	29.0
5	15.5	15.0	19.5	19.0	25.5	25.0	---	---	29.5	28.5	29.5	29.0
6	15.0	14.5	20.0	19.5	25.5	24.5	---	---	30.0	28.5	29.0	29.0
7	15.0	14.5	20.0	19.5	25.0	24.0	---	---	31.0	28.0	29.0	28.5
8	15.0	14.0	20.0	20.0	25.5	24.5	---	---	30.0	28.0	28.5	28.0
9	15.5	15.0	20.5	20.0	25.0	24.5	---	---	30.5	29.0	28.5	28.0
10	15.0	14.5	20.0	19.5	25.5	25.0	---	---	30.5	28.5	28.5	28.0
11	15.5	15.0	21.5	19.5	26.0	24.5	---	---	31.0	30.0	29.0	28.0
12	15.5	14.5	22.0	21.5	26.0	24.5	---	---	31.5	30.5	28.5	25.5
13	15.5	15.5	22.0	21.5	26.0	25.0	---	---	31.5	30.0	29.0	28.5
14	16.0	15.5	23.0	22.0	26.0	25.5	---	---	31.5	30.0	29.0	28.5
15	16.5	16.0	23.0	21.5	---	---	---	---	31.0	30.5	28.5	28.5
16	16.5	16.0	23.5	22.0	---	---	---	---	31.0	29.5	28.5	28.0
17	16.5	16.0	24.0	22.5	---	---	---	---	30.5	29.5	28.0	27.5
18	17.0	16.5	24.0	22.5	---	---	---	---	30.0	29.0	28.5	28.0
19	17.5	17.0	24.0	23.5	---	---	28.5	28.5	29.0	29.0	28.5	28.0
20	17.5	17.0	24.0	23.0	---	---	29.0	28.0	29.0	28.5	28.0	27.5
21	17.5	17.0	24.0	23.0	---	---	28.5	27.5	30.0	28.0	28.0	27.0
22	17.5	17.0	23.5	23.0	---	---	28.5	27.5	30.0	28.5	27.5	27.5
23	17.5	17.0	23.0	23.0	---	---	29.5	28.5	29.0	25.5	28.0	27.5
24	18.0	17.5	23.0	22.5	---	---	29.5	29.0	29.5	29.0	27.5	26.5
25	17.5	16.5	23.0	22.5	---	---	29.5	29.0	29.5	28.5	28.0	27.5
26	18.0	17.0	24.5	23.0	---	---	30.0	29.0	30.0	29.0	27.5	27.0
27	18.0	17.5	24.0	23.0	---	---	29.5	29.0	30.0	29.5	27.5	27.0
28	18.0	17.5	24.0	23.5	---	---	29.0	28.0	30.0	29.5	27.5	27.0
29	18.5	17.5	24.5	23.5	---	---	29.0	27.0	30.0	29.5	---	---
30	18.5	18.0	24.5	24.0	---	---	29.5	28.0	29.5	29.0	---	---
31	---	---	24.5	24.5	---	---	29.0	28.0	30.0	29.5	---	---
MONTH	18.5	14.0	24.5	18.0	26.0	24.0	30.0	27.0	31.5	25.5	31.0	25.5

02421000 CATOMA CREEK NEAR MONTGOMERY, AL

LOCATION.--Lat 32°18'26", long 86°17'58", in center sec. 6, T. 15 N., R. 18 E., Montgomery County, Hydrologic Unit 03150201, on right bank on downstream side of bridge on U.S. Highway 331, 5 mi (8 km) south of Montgomery.

DRAINAGE AREA.--298 mi^2 (772 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1952 to September 1971. Flood hydrograph, water years 1972-74. October 1974 to current year.

REVISED RECORDS.--WSP 1384: Drainage area.

REMARKS.--Water-discharge record fair.

AVERAGE DISCHARGE.--22 years (water years 1953-71, 1975-77), 374 ft^3/s (10.59 m^3/s), 17.04 in/yr (433 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 48,600 ft^3/s (1,380 m^3/s) Feb. 25, 1961, gage height, 28.65 ft (8.733 m); no flow for many days in some years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Nov. 28, 1948, reached a stage of 27.5 ft (8.38 m) at present site and datum; discharge, 38,300 ft^3/s (1,080 m^3/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,000 ft^3/s (142 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 13	1900	6750	192	20.60	6.279	Mar. 30	1300	*8580	243	*21.59	6.581

Minimum discharge, 1.3 ft^3/s (0.037 m^3/s) Oct. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	2.3	1420	116	133	935	2590	19	4.0	6.0	12	2.2
2	3.2	1.9	693	90	156	385	1480	17	4.7	13	274	1.9
3	2.8	3.0	151	742	178	200	804	16	4.8	5.0	381	2.6
4	2.6	6.0	86	1330	327	1620	380	15	4.0	3.1	293	12
5	2.4	3.4	59	1010	543	3540	297	14	3.4	2.3	74	20
6	6.6	2.3	46	640	395	4890	445	13	2.8	2.0	19	100
7	6.6	2.0	241	1160	221	3460	436	21	3.0	2.6	14	150
8	5.5	1.9	987	1080	138	1500	187	17	3.1	2.0	9.7	70
9	4.8	1.7	862	1000	102	675	125	12	2.6	1.9	7.8	40
10	3.8	1.8	510	1690	84	329	94	9.2	2.3	2.0	6.5	20
11	5.8	2.0	347	1340	74	318	76	8.8	1.9	2.2	6.0	10
12	11	26	869	711	66	1670	61	11	1.8	2.2	5.5	6.0
13	11	5.5	1330	275	61	5760	53	11	2.6	1.9	5.4	4.0
14	5.0	9.9	1040	1270	59	4800	48	8.0	2.6	1.9	11	6.0
15	3.8	40	699	2340	53	2340	43	7.1	1.8	1.8	6.8	10
16	2.9	21	356	2190	47	556	37	6.4	2.0	1.9	4.5	10
17	4.0	64	280	1660	41	269	34	5.7	2.8	2.2	3.2	30
18	4.2	43	175	390	38	203	36	5.3	49	6.3	14	50
19	1.9	25	116	247	38	158	50	4.6	22	5.8	15	30
20	1.7	26	115	197	37	534	33	4.5	8.6	3.1	25	20
21	2.0	22	120	163	36	853	38	3.7	3.0	5.5	13	10
22	1.8	13	128	155	34	1080	76	83	2.2	2.1	8.5	8.0
23	1.9	20	106	132	50	1060	80	18	2.3	27	5.6	6.0
24	1.7	18	77	283	1890	993	157	12	81	11	3.9	5.0
25	9.0	13	508	535	2360	363	112	7.4	8.6	3.0	2.9	4.0
26	19	28	1890	393	1690	188	61	5.6	7.5	2.7	4.4	100
27	5.5	55	2410	241	1490	136	40	5.4	4.9	8.8	3.1	300
28	2.8	1000	1850	242	1530	552	29	5.2	3.3	75	6.0	100
29	1.9	1980	835	260	---	3150	24	9.8	3.6	268	8.1	50
30	28	1990	241	175	---	7900	21	5.5	2.9	127	4.7	30
31	11	---	158	129	---	5060	---	4.0	---	28	3.1	---
TOTAL	177.8	5427.7	18705	22186	11871	55477	7947	385.2	249.1	627.3	1250.7	1207.7
MEAN	5.74	181	603	716	424	1790	265	12.4	8.30	20.2	40.3	40.3
MAX	28	1990	2410	2340	2360	7900	2590	83	81	268	381	300
MIN	1.7	1.7	46	90	34	136	21	3.7	1.8	1.8	2.9	1.9
CFSM	.02	.61	2.02	2.40	1.42	6.01	.89	.04	.03	.07	.14	.14
IN.	.02	.68	2.33	2.77	1.48	6.93	.99	.05	.03	.08	.16	.15

CAL YR 1976 TOTAL 178805.6 MEAN 489 MAX 11500 MIN 1.7 CFSM 1.64 IN 22.32
WTR YR 1977 TOTAL 125511.5 MEAN 344 MAX 7900 MIN 1.7 CFSM 1.15 IN 15.67

02421000 CATOMA CREEK NEAR MONTGOMERY, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1972 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water years 1968, 1969, and 1971.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
DEC											
16...	343	178	7.1	11.0	--	40	30	--	--	--	--
JAN											
21...	166	160	8.0	--	--	79	24	--	--	--	--
MAR											
28...	134	223	7.4	16.5	9.8	89	14	33	1.5	6.0	.3
AUG											
30...	3.0	340	7.6	26.5	5.5	120	18	47	1.6	5.9	.2

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)
DEC											
16...	--	12	0	--	8.0	--	--	--	--	--	--
JAN											
21...	--	68	0	--	10	--	--	--	--	--	--
MAR											
28...	1.6	92	0	16	9.6	.1	6.2	124	44.9	.81	3.6
AUG											
30...	3.2	130	0	15	10	2.0	1.7	158	1.28	1.6	7.1

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
DEC										
16...	--	--	--	--	--	--	--	--	--	--
JAN										
21...	--	--	--	--	--	--	--	--	--	--
MAR										
28...	1	1	ND	1	260	<1	32	.4	200	220
AUG										
30...	2	ND	ND	2	40	1	16	<.2	320	20

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT			
05...	2.4	280	21.0
NOV			
09...	1.4	260	6.0
MAR			
03...	204	150	11.5

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
MAY			
23...	16	300	23.0
JUL			
05...	2.6	312	28.0
AUG			
17...	2.9	324	31.5

MOBILE RIVER MAIN STEM

02421351 ALABAMA RIVER AT JONES BLUFF LOCK AND DAM, NEAR BENTON, AL

LOCATION.--Lat 32°19'15", long 86°47'08", in NW¼ sec. 32, T. 16 N., R. 13 E., Lowndes County, Hydrologic Unit 03150201, at downstream end of Jones Bluff lock and dam, 2 mi (3 km) upstream from Big Swamp Creek, 2.5 mi (4.0 km) northeast of Benton, 5 mi (8 km) downstream from Ivy Creek, and at mile 245.4 (394.8 km).

DRAINAGE AREA.--16,300 mi^2 (42,217 km^2).

PERIOD OF RECORD.--January 1972 to current year (elevations only).

GAGE.--Nonrecording gage. Datum of gage is mean sea level.

COOPERATION.--Records furnished by Corps of Engineers.

EXTREMES (AT 0700) FOR PERIOD OF RECORD.--Maximum elevation, 126.9 ft (38.68 m) Apr. 3, 1976; minimum, 79.3 ft (24.17 m) May 16, 1977.

EXTREMES (AT 0700) FOR CURRENT YEAR.--Maximum elevation, 124.9 ft (38.07 m) Apr. 3; minimum, 79.3 ft (24.17 m) May 16.

ELEVATION, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 0700

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79.90	80.60	94.80	92.70	80.10	98.80	123.90	85.60	80.80	80.60	81.00	79.90
2	80.70	80.10	92.70	85.50	82.90	96.90	124.70	82.70	80.70	80.70	80.60	80.30
3	79.80	81.20	91.60	88.90	87.00	95.30	124.90	81.00	80.50	80.90	80.40	80.80
4	79.90	80.90	87.20	82.50	81.00	95.70	124.20	80.70	80.20	80.60	80.50	80.90
5	79.90	80.20	81.30	88.50	80.90	97.20	123.20	82.80	80.30	80.10	80.60	80.40
6	79.80	81.20	83.90	89.40	80.90	100.50	121.80	81.20	80.20	80.20	81.00	80.40
7	79.60	80.50	79.30	89.40	85.40	105.30	120.80	81.30	80.40	80.20	80.00	80.40
8	80.10	85.10	86.70	90.20	82.80	106.80	121.10	86.10	80.40	80.60	80.70	80.20
9	80.20	80.30	87.40	92.20	86.90	104.20	120.90	80.60	79.80	80.60	79.90	80.50
10	80.20	80.20	83.40	98.50	82.20	101.20	119.40	85.10	80.20	80.40	79.90	80.50
11	80.20	80.20	83.70	106.30	80.70	100.00	116.80	85.70	80.10	80.40	80.10	84.10
12	79.80	80.30	84.80	106.10	80.50	96.30	113.00	85.70	80.40	80.50	80.50	80.40
13	80.00	80.60	93.00	102.90	80.60	107.60	110.60	81.90	80.20	80.10	80.10	80.00
14	80.10	80.40	93.40	101.10	84.90	114.80	107.80	91.10	80.20	80.20	80.30	80.00
15	80.10	83.90	93.40	102.50	80.70	116.00	105.40	80.40	80.30	79.80	80.00	80.20
16	80.90	80.60	92.70	101.70	81.20	112.90	104.90	79.30	80.70	80.40	79.50	80.50
17	80.50	80.70	88.50	100.50	85.60	108.90	103.90	80.30	84.70	80.40	79.80	81.50
18	80.40	80.40	86.70	98.40	82.70	106.00	98.80	80.30	80.10	80.30	79.70	85.60
19	80.10	81.30	86.20	93.50	80.40	101.90	95.70	83.60	80.30	80.10	80.00	85.80
20	81.10	80.40	85.70	92.30	80.00	99.70	95.10	80.60	80.50	80.10	80.20	80.60
21	81.60	80.30	84.90	91.60	80.00	98.60	94.70	81.60	80.40	80.20	80.40	81.90
22	82.90	83.90	85.40	91.80	80.40	100.80	92.70	80.90	81.30	80.20	80.30	82.00
23	80.20	80.10	85.20	86.90	80.40	109.30	94.10	80.60	83.40	80.20	80.20	80.60
24	80.20	79.90	86.30	80.50	90.50	110.70	92.20	81.40	81.10	80.80	80.00	80.30
25	80.20	80.20	84.20	82.40	102.80	107.60	88.50	81.50	81.30	80.90	80.30	80.00
26	79.70	80.20	92.70	89.80	102.90	103.80	86.40	80.30	80.50	80.90	80.40	80.80
27	79.90	80.20	96.90	89.00	100.20	100.20	87.00	80.40	80.80	80.80	80.50	80.90
28	80.40	80.50	96.80	86.40	100.60	97.00	91.90	80.10	80.40	80.90	80.20	80.00
29	80.40	86.20	95.00	87.60	---	97.90	92.60	80.50	80.60	80.50	80.20	80.20
30	81.90	92.10	93.70	87.20	---	106.80	84.50	80.60	80.30	81.10	80.10	80.40
31	81.10	---	91.40	86.30	---	119.70	---	81.20	---	84.00	80.10	---
MEAN	80.38	81.42	88.67	92.34	85.19	103.82	106.05	82.10	80.70	80.57	80.24	81.00
MAX	82.90	92.10	96.90	106.30	102.90	119.70	124.90	91.10	84.70	84.00	81.00	85.80
MIN	79.60	79.90	79.30	80.50	80.00	95.30	84.50	79.30	79.80	79.80	79.50	79.90

02422000 BIG SWAMP CREEK NEAR LOWNDESBORO, AL

LOCATION.--Lat 32°16'00", long 86°41'40", in NE¼ sec. 19, T. 15 N., R. 14 E., Lowndes County, Hydrologic Unit 03150201, on right bank at upstream side of bridge on U.S. Highway 80, 1 mi (1.6 km) downstream from Panther Creek, 5 mi (8 km) west of Lowndesboro, and 12 mi (19 km) upstream from mouth.

DRAINAGE AREA.--247 mi^2 (640 km^2).

PERIOD OF RECORD.--October 1970 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water years 1968, 1969, and 1970.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
MAR											
28...	39	350	7.7	16.0	7.9	160	29	61	2.2	6.6	.2
SEP											
07...	2.4	273	7.4	25.0	4.7	130	11	46	2.5	3.5	.1

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)
MAR											
28...	1.8	160	0	25	8.8	.1	3.7	192	20.2	.77	3.4
SEP											
07...	2.8	140	0	6.4	8.2	.1	5.7	145	.94	1.7	.75

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
MAR										
28...	1	1	0	1	10	1	7	.2	330	<5
SEP										
07...	1	<1	1	<1	80	1	120	.5	270	10

02422500 MULBERRY CREEK AT JONES, AL

LOCATION.--Lat 32°34'58", long 86°54'13", in E½ sec. 31, T. 19 N., R. 12 E., Dallas County, Hydrologic Unit 03150201, on right bank 70 ft (21 m) downstream from highway bridge, 0.4 mi (0.6 km) west of Jones, 6 mi (10 km) upstream from Buck Creek, and 11 mi (18 km) upstream from mouth.

DRAINAGE AREA.--208 mi^2 (539 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1938 to September 1970, October 1974 to current year. (October 1970 to September 1974 flood hydrograph only.) Prior to October 1959, published as Mulberry "River" at Jones.

REVISED RECORDS.--WSP 1384: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 165.23 ft (50.362 m) above mean sea level. Prior to June 2, 1939, nonrecording gage at site 50 ft (15 m) upstream at same datum.

REMARKS.--Water-discharge records fair.

AVERAGE DISCHARGE.--35 years (water years 1939-70, 1975-77), 318 ft^3/s (9.006 m^3/s), 20.76 in/yr (527 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,800 ft^3/s (929 m^3/s) Aug. 16, 1939, gage height, 30.38 ft (9.260 m); minimum daily discharge, 27 ft^3/s (0.76 m^3/s) Oct. 6, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 33.6 ft (10.24 m) in April 1938, from information by local residents, discharge, 48,000 ft^3/s (1,360 m^3/s), from rating curve extended above 30,000 ft^3/s (850 m^3/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,000 ft^3/s (113 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 24	1500	*5170	146	*10.67	3.252	Mar. 30	2200	4590	130	9.84	2.999
Mar. 13	0800	4890	138	10.27	3.130						

Minimum discharge, 60 ft^3/s (1.70 m^3/s) Sept. 2, 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	140	125	190	225	272	695	1390	196	109	125	118	64
2	130	114	170	215	259	580	1320	188	98	124	119	62
3	120	112	159	450	256	517	1080	185	94	124	116	60
4	114	112	154	410	262	1370	1030	186	92	100	122	71
5	98	111	152	324	250	932	1750	183	94	80	115	100
6	121	111	154	331	215	1080	1010	176	98	69	102	101
7	132	112	206	620	206	896	818	170	97	68	93	163
8	122	111	208	390	202	665	720	172	94	69	88	133
9	121	111	165	1420	200	570	645	170	90	83	82	102
10	121	115	154	2160	198	522	565	170	93	80	80	89
11	115	119	204	752	198	513	513	159	92	94	78	93
12	111	132	938	570	217	2190	468	161	90	90	74	90
13	107	140	974	513	390	3740	438	161	87	84	72	82
14	104	143	426	848	265	1260	402	165	89	112	71	83
15	102	513	359	720	222	812	374	154	94	90	74	87
16	102	232	331	517	202	720	338	151	113	101	79	208
17	108	156	262	406	198	620	314	159	111	83	79	194
18	112	141	232	382	200	565	293	165	116	95	101	125
19	102	136	215	345	198	504	282	172	122	86	124	149
20	102	144	241	345	190	477	265	136	124	87	158	259
21	102	154	247	345	186	818	256	121	122	83	112	141
22	102	140	200	307	185	1350	307	125	109	81	92	105
23	105	128	194	286	896	685	615	128	121	78	84	92
24	107	130	185	468	4600	545	366	122	127	86	79	87
25	122	130	866	560	1230	486	296	116	124	140	79	88
26	152	140	944	370	690	434	253	118	122	174	79	87
27	140	165	450	335	1670	398	232	125	124	132	82	88
28	116	390	353	335	950	705	220	119	130	212	78	87
29	109	570	289	307	---	1290	210	124	130	268	72	88
30	125	262	256	259	---	3050	204	118	130	190	70	143
31	152	---	256	268	---	3010	---	114	---	138	67	---
TOTAL	3616	5199	10134	15783	15007	31999	16974	4709	3236	3426	2839	3321
MEAN	117	173	327	509	536	1032	566	152	108	111	91.6	111
MAX	152	570	974	2160	4600	3740	1750	196	130	268	158	259
MIN	98	111	152	215	185	398	204	114	87	68	67	60
CFSM	.56	.83	1.57	2.45	2.58	4.96	2.72	.73	.52	.53	.44	.53
IN.	.65	.93	1.81	2.82	2.68	5.72	3.04	.84	.58	.61	.51	.59

CAL YR 1976 TOTAL 163483 MEAN 447 MAX 5900 MIN 98 CFSM 2.15 IN 29.24
WTR YR 1977 TOTAL 116243 MEAN 318 MAX 4600 MIN 60 CFSM 1.53 IN 20.79

02422500 MULBERRY CREEK AT JONES, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1969-1970, October 1976 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water years 1966-69, 1972, 1975.

COOPERATION.--Chemical-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
NOV											
22...	133	--	7.0	10.0	9.4	10	4	2.0	1.2	2.0	.3
DEC											
20...	235	33	6.5	11.0	9.0	10	1	2.0	1.1	2.0	.3
FEB											
02...	252	--	6.1	5.0	11.1	9	4	2.0	.9	1.8	.3
MAR											
14...	987	33	6.6	14.5	11.6	9	2	2.4	.6	2.0	.3
APR											
26...	230	31	6.7	16.5	9.3	11	3	2.8	.9	1.7	.2
JUN											
09...	86	32	6.2	20.0	5.3	11	2	2.4	1.1	2.1	.3
JUL											
26...	170	30	6.4	26.0	8.7	7	1	1.7	.7	2.3	.4
AUG											
29...	68	58	7.4	30.5	7.4	22	4	7.0	1.0	2.1	.2

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)
NOV											
22...	1.3	8	0	2.8	3.2	.1	10	28	10.1	.20	.90
DEC											
20...	1.0	11	0	2.6	2.0	.0	10	26	16.5	.15	.68
FEB											
02...	.9	7	0	3.0	2.4	.0	8.2	24	16.3	.38	1.7
MAR											
14...	.8	9	0	3.6	2.4	.0	8.2	24	64.0	.20	.90
APR											
26...	1.0	10	0	2.0	2.4	.0	8.7	25	15.5	.14	.63
JUN											
09...	1.2	11	0	2.8	2.2	.0	7.6	25	5.80	.21	.95
JUL											
26...	1.2	8	0	2.4	2.6	.0	9.0	24	11.0	.02	.09
AUG											
29...	1.3	21	0	2.0	3.0	.0	11	42	7.71	.91	4.0

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
NOV										
22...	1	<1	ND	<1	190	2	15	<.2	40	10
DEC										
20...	<1	<1	1	1	190	<1	5	.2	40	20
FEB										
02...	1	<1	ND	1	80	1	75	ND	20	20
MAR										
14...	1	<1	1	1	110	1	81	<.2	20	70
APR										
26...	1	<1	ND	<1	210	2	8	ND	20	70
JUN										
09...	<1	<1	ND	1	240	ND	3	ND	30	10
JUL										
26...	<1	<1	ND	1	240	1	9	ND	30	130
AUG										
29...	2	1	ND	2	190	1	17	<.2	60	<5

MOBILE RIVER MAIN STEM

02423000 ALABAMA RIVER AT SELMA, AL

LOCATION.--Lat 32°24'20", long 87°01'07", in SE¼ sec. 36, T. 17 N., R. 10 E., Dallas County, Hydrologic Unit 03150201, in first pier from right bank of Edmund Pettus Bridge on U.S. Highway 80, in Selma, 1 mi (2 km) upstream from Valley Creek, and at mile 214.8 (345.6 km).

DRAINAGE AREA.--17,100 mi^2 (44,300 km^2), approximately.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--January to December 1899 (gage heights only), January 1900 to December 1913, and June 1928 to September 1970. October 1971 to current year (gage heights only). Gage-height records December 1890 to December 1971 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 662: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 61.80 ft (18.837 m) above mean sea level. Prior to June 22, 1928, nonrecording gage, June 22, 1928, to Apr. 11, 1938, water-stage recorder, and Apr. 12, 1938, to May 22, 1940, nonrecording gage all at site 300 ft (91.4 m) upstream at same datum.

REMARKS.--Records good. Flow affected by operation of reservoirs on Etowah, Coosa, Tallapoosa, and Alabama Rivers. (See Reservoirs in Mobile River basin.) Stage affected by Millers Ferry lock and dam since November 1968.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 57.97 ft (17.669 m) Mar. 1, 1961; minimum gage height, -2.20 ft (0.670 m) Nov. 1, 1904.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 8, 1886, reached a stage of 57.0 ft (17.37 m) present site and datum, from floodmarks established by Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 48.19 ft (14.688 m) Apr. 3; minimum, 18.01 ft (5.489 m) Dec. 6.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.75	19.16	23.32	22.07	19.52	26.85	46.02	20.51	19.94	---	19.06	18.81
2	18.62	19.73	22.52	20.85	19.95	25.59	47.70	19.67	19.65	---	18.71	19.03
3	18.32	19.91	22.01	21.18	20.44	24.62	48.19	19.69	19.46	---	19.11	18.95
4	18.37	19.21	21.11	20.88	20.00	24.88	47.60	19.37	19.34	---	19.39	18.65
5	18.56	19.08	18.96	21.50	19.60	25.61	46.58	20.18	18.87	---	19.59	18.46
6	18.27	19.01	18.01	21.93	19.47	28.35	45.44	20.07	19.01	---	19.26	18.36
7	18.69	18.83	19.08	21.81	19.22	31.52	44.60	20.18	---	---	18.68	18.42
8	18.71	18.84	20.36	22.35	19.73	32.48	44.51	20.16	---	---	18.90	18.56
9	18.70	19.27	20.41	22.95	20.59	31.09	44.45	19.40	---	---	18.73	19.02
10	18.55	19.10	20.41	27.50	20.10	28.76	43.38	19.88	---	---	18.87	19.04
11	18.45	19.10	20.10	31.79	19.77	26.71	41.07	20.30	---	---	18.73	19.24
12	18.52	19.59	21.09	32.03	19.41	26.17	37.84	20.74	---	---	18.74	18.81
13	18.64	19.51	23.27	30.23	18.60	33.15	35.30	20.63	---	---	18.63	18.94
14	18.69	19.20	23.21	28.74	18.39	38.64	33.26	20.39	---	---	18.32	19.23
15	18.93	19.93	23.09	29.26	18.79	40.07	31.34	18.53	---	---	18.31	19.51
16	18.92	19.91	22.48	28.62	18.99	---	30.61	18.11	---	---	18.28	19.80
17	18.76	19.82	21.76	27.29	19.42	---	29.64	18.37	---	---	18.13	20.37
18	18.66	19.42	21.45	25.63	19.47	---	26.39	18.69	---	---	18.28	20.32
19	18.74	19.20	20.77	23.27	19.09	28.63	24.37	19.28	---	---	18.46	19.94
20	19.33	19.16	19.48	22.53	18.73	26.80	24.20	19.10	---	18.52	18.66	19.89
21	19.61	18.88	19.45	22.43	18.90	26.22	23.52	19.28	---	18.50	18.47	20.49
22	19.14	18.82	19.60	22.56	19.17	28.73	22.78	19.11	---	18.78	18.36	20.48
23	18.82	19.04	20.03	21.15	19.21	33.91	23.24	19.01	---	19.06	18.52	19.59
24	18.79	19.11	20.56	19.38	23.57	35.43	22.59	20.01	---	18.95	19.05	19.24
25	18.34	18.83	20.85	20.34	29.32	33.97	21.28	19.74	---	18.89	19.29	18.92
26	18.47	18.78	23.18	21.76	29.84	30.95	21.57	18.87	---	18.89	18.99	18.80
27	18.68	18.81	24.94	22.06	28.74	27.78	21.44	18.63	---	18.97	18.82	19.04
28	18.82	19.24	24.96	21.49	28.50	25.38	22.19	18.79	---	19.19	18.56	19.08
29	19.15	20.76	23.77	21.73	---	25.98	22.17	18.86	---	19.19	18.36	19.09
30	19.41	22.41	22.98	20.67	---	32.98	20.69	18.96	---	19.20	18.41	19.73
31	19.10	---	22.32	19.67	---	42.01	---	19.56	---	19.56	18.42	---
TOTAL	581.51	581.66	665.53	735.66	586.53	---	993.96	604.07	---	---	580.09	577.81
MEAN	18.76	19.39	21.47	23.73	20.95	---	33.13	19.49	---	---	18.71	19.26
MAX	19.61	22.41	24.96	32.03	29.84	---	48.19	20.74	---	---	19.59	20.49
MIN	18.27	18.78	18.01	19.38	18.39	---	20.69	18.11	---	---	18.13	18.36

MOBILE RIVER MAIN STEM

02423000 ALABAMA RIVER AT SELMA, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1955 to November 1956, June 1962 to September 1973, April 1975 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1955 to November 1956, June 1962 to September 1972, April 1975 to current year. June to September 1962 unpublished.

INSTRUMENTATION.--Temperature recorder June 1962 to September 1972, April 1975 to current year.

REMARKS.--No temperature data for Oct. 1-6 due to recorder malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum (water years 1962-71, 1976-77), 31.5°C on several days in July and August 1977; minimum (water years 1962-71, 1976-77), 4.0°C Jan. 22, 1977.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 31.5°C on several days in July and August; minimum, 4.0°C Jan. 22.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	17.5	17.0	12.5	12.0	8.5	8.0	5.5	5.0	10.5	10.5
2	---	---	17.5	16.5	12.0	11.5	8.0	7.5	5.5	5.5	10.5	10.5
3	---	---	17.5	17.0	11.5	11.0	8.0	7.5	5.5	5.5	11.0	10.5
4	---	---	17.5	17.0	11.0	11.0	7.5	7.5	5.5	5.5	12.0	11.0
5	---	---	16.5	16.0	11.0	10.5	7.5	7.5	6.0	5.5	12.0	11.5
6	---	---	16.0	16.0	11.0	10.5	7.5	7.5	6.0	5.5	12.0	11.5
7	24.5	24.5	16.0	15.5	11.0	10.5	7.5	7.0	6.0	5.5	12.0	12.0
8	24.5	24.0	15.5	15.0	10.5	10.5	7.5	7.0	6.0	5.5	12.0	11.5
9	24.0	23.0	15.0	14.5	10.5	10.0	7.5	7.5	6.0	5.5	12.0	11.5
10	23.5	23.0	15.5	15.0	10.5	10.0	7.5	7.0	6.5	6.0	12.0	12.0
11	23.0	22.5	16.0	15.5	10.5	10.0	7.0	6.5	7.0	6.5	12.0	12.0
12	23.0	22.5	15.5	15.0	10.5	10.5	6.5	6.0	7.5	7.0	13.0	12.5
13	23.0	23.0	15.0	14.5	10.5	10.5	6.0	6.0	7.5	7.0	13.0	12.5
14	23.0	22.5	14.5	14.5	10.5	10.5	6.5	6.0	8.5	7.5	13.5	13.0
15	23.0	22.5	14.5	14.0	11.0	10.5	6.5	6.0	8.5	7.5	14.0	13.5
16	23.0	22.5	14.0	13.5	11.0	11.0	6.5	6.5	7.5	7.0	14.5	14.0
17	22.5	21.5	14.0	13.5	11.0	10.5	6.5	6.0	7.5	7.0	14.5	14.0
18	22.0	21.0	14.0	13.5	11.0	10.5	6.0	5.0	8.0	7.5	15.0	14.5
19	21.0	20.5	14.0	13.5	11.0	11.0	5.0	4.5	9.0	8.0	15.0	14.5
20	21.0	20.5	14.0	13.5	11.0	11.0	5.0	4.5	9.0	8.5	15.0	15.0
21	20.5	20.0	14.0	13.5	11.0	10.5	4.5	4.5	9.0	8.5	15.0	15.0
22	20.5	20.0	13.5	13.5	10.5	10.0	4.5	4.0	9.5	8.5	15.0	14.5
23	20.5	20.0	13.0	12.5	10.0	9.5	5.0	4.5	10.0	9.0	15.0	14.5
24	20.0	19.5	13.5	12.5	9.5	9.5	5.5	5.0	10.5	9.5	15.0	15.0
25	20.0	19.5	13.5	13.0	9.5	9.0	5.5	5.0	10.5	9.0	15.5	15.0
26	19.5	19.5	13.5	13.0	9.0	8.5	5.5	5.0	10.0	9.5	15.0	15.0
27	19.0	19.0	13.5	13.0	9.0	8.5	6.0	5.5	11.0	10.0	15.5	15.0
28	19.0	18.5	14.0	13.5	8.5	8.5	6.5	6.0	10.5	10.5	15.5	15.0
29	18.5	18.0	13.5	12.5	8.5	8.5	6.0	5.5	---	---	15.5	15.0
30	18.0	17.5	12.5	12.5	8.5	8.5	5.5	5.0	---	---	16.0	15.5
31	17.5	17.5	---	---	8.5	8.5	5.5	5.0	---	---	16.5	16.0
MONTH	24.5	17.5	17.5	12.5	12.5	8.5	8.5	4.0	11.0	5.0	16.5	10.5

02423000 ALABAMA RIVER AT SELMA, AL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	17.0	16.5	21.0	20.5	26.0	26.0	29.5	29.0	29.5	29.0	29.5	29.0
2	17.0	17.0	21.0	21.0	26.0	26.0	29.5	29.0	30.0	29.0	29.5	29.0
3	17.0	17.0	21.5	21.0	27.5	26.0	30.0	29.0	29.5	28.5	29.5	29.0
4	17.5	17.0	21.5	21.5	27.0	26.5	30.0	29.0	29.0	28.5	29.0	29.0
5	17.5	17.5	22.0	22.0	28.5	26.5	31.0	29.5	29.0	29.0	29.5	28.5
6	17.5	17.5	22.5	22.0	27.5	27.0	31.0	29.5	29.5	29.0	29.0	28.0
7	17.5	17.5	23.0	22.5	27.5	27.0	30.5	29.5	29.5	29.0	28.0	28.0
8	17.5	17.5	23.0	23.0	27.5	27.0	31.0	30.0	30.5	29.5	28.0	27.5
9	17.5	17.5	23.5	23.0	27.5	26.5	31.5	30.0	30.0	29.5	28.5	28.0
10	17.5	17.5	23.5	23.0	27.5	26.5	30.5	29.5	30.5	29.5	29.0	28.0
11	18.0	17.5	23.5	23.0	27.5	27.0	29.5	29.0	30.0	29.0	28.5	28.5
12	18.0	18.0	23.5	23.0	28.0	27.5	31.0	29.0	30.0	29.5	28.5	28.0
13	18.0	18.0	23.5	23.0	29.5	28.0	31.0	29.5	30.5	29.5	28.5	28.0
14	18.5	18.0	23.5	23.0	29.0	28.0	30.5	29.5	31.5	30.0	28.0	28.0
15	18.5	18.0	24.0	23.0	28.5	28.0	31.0	29.5	30.5	30.0	28.0	28.0
16	19.0	18.5	24.5	23.5	29.0	27.5	31.0	29.5	30.0	29.5	28.0	27.5
17	19.0	18.5	25.0	23.5	28.0	28.0	31.5	30.0	30.0	30.0	27.5	27.5
18	19.5	19.0	25.5	24.0	28.5	28.0	30.5	29.5	30.0	29.5	28.0	27.5
19	19.5	19.0	24.5	23.5	28.0	28.0	29.5	29.0	29.5	29.5	28.0	28.0
20	20.0	19.5	25.5	24.0	29.0	28.0	31.0	29.0	30.0	29.0	28.0	27.5
21	20.0	19.5	25.0	24.5	29.5	28.0	30.0	29.5	30.5	29.0	27.5	27.5
22	20.0	19.5	25.5	24.5	29.0	28.5	30.5	29.5	29.5	29.0	27.5	27.5
23	20.0	19.5	27.0	25.0	29.0	28.5	31.0	30.0	31.0	29.5	27.5	27.5
24	20.0	19.5	25.0	25.0	29.0	28.5	30.5	30.0	30.0	29.5	27.5	27.5
25	20.0	19.5	25.0	25.0	29.0	28.5	31.0	30.0	30.0	29.5	27.5	27.5
26	20.0	19.5	25.5	24.5	29.0	28.5	30.5	30.0	30.5	29.5	27.5	27.5
27	20.0	19.5	26.0	25.0	29.5	29.0	30.0	30.0	30.0	29.5	27.5	27.5
28	20.5	20.0	26.0	25.5	29.0	28.5	30.0	29.5	30.0	29.5	27.5	27.5
29	20.5	20.0	26.0	25.5	29.0	28.5	29.5	29.0	30.0	29.0	27.5	27.0
30	21.0	20.5	26.5	25.5	30.5	28.5	29.5	29.0	29.5	29.0	27.0	26.5
31	---	---	26.5	26.0	---	---	29.5	29.0	30.0	29.0	---	---
MONTH	21.0	16.5	27.0	20.5	30.5	26.0	31.5	29.0	31.5	28.5	29.5	26.5

02423425 CAHABA RIVER NEAR CAHABA HEIGHTS, AL

LOCATION.--Lat 33°24'56", long 86°44'23", in NW¼ sec. 3, T. 19 S., R. 2 W., Shelby County, Hydrologic Unit 03150202, on left bank 700 ft (213 m) upstream from bridge on county road, 2.5 mi (4.0 km) upstream from Little Shades Creek, 3.0 mi (4.8 km) south of Cahaba Heights, 3.4 mi (5.5 km) downstream from Little Cahaba River, and at mile 144.9 (233.1 km).

DRAINAGE AREA.--201 mi^2 (521 km^2).

PERIOD OF RECORD.--August 1975 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 410 ft (125 m), from topographic map.

REMARKS.--Records good. Records of specific conductance and water temperatures for the water year 1977 are published under miscellaneous water-quality sites in this report. An average of 82 ft^3/s (2.32 m^3/s) is diverted above station by Birmingham Water Works Co., and is not included in records except about 7 ft^3/s (0.20 m^3/s) which is returned to river above station. Flow partly regulated by Purdy Lake (capacity,15,300 acre-ft or 18.9 hm^3) on Little Cahaba River.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,400 ft^3/s (408 m^3/s) Apr. 5, 1977, gage height 21.67 ft (6.605 m); minimum, 0.39 ft^3/s (0.011 m^3/s) Aug. 12, 25, 26, 1977, gage height 1.17 ft (0.357 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,000 ft^3/s (113 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 13	0300	5490	155	14.75	4.496	Apr. 5	1100	*14400	408	*21.67	6.605
Mar. 30	0500	4380	124	12.13	3.697						

Minimum discharge, 0.39 ft^3/s (0.011 m^3/s) Aug. 12, 25, 26, gage height 1.17 ft (0.357 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	16	23	88	175	745	1260	92	14	6.8	3.8	1.5
2	25	16	11	56	143	512	946	64	9.2	6.8	3.1	1.2
3	14	8.0	8.0	67	123	392	2870	56	14	4.6	2.8	.97
4	12	4.6	6.8	147	116	832	4220	49	9.2	3.4	2.0	.77
5	9.2	4.1	5.9	171	105	913	11400	44	3.4	2.8	2.2	.68
6	8.0	4.6	11	192	88	2850	2760	36	2.8	2.5	2.2	1.6
7	9.2	4.6	61	462	67	1960	981	36	2.0	2.0	2.5	578
8	23	3.8	82	398	44	1140	662	38	.97	1.8	2.5	253
9	29	2.8	51	1620	41	776	506	56	.53	2.0	2.2	64
10	21	3.1	29	2730	36	584	398	36	.68	16	1.6	16
11	18	3.8	36	972	31	493	321	44	.97	4.1	.77	5.9
12	9.2	16	154	538	44	2300	268	27	1.2	3.4	.46	4.2
13	8.0	11	316	404	88	4060	225	14	1.5	2.8	.68	12
14	6.8	29	179	655	88	1730	197	8.0	2.5	2.2	.53	109
15	6.8	59	120	824	64	998	171	6.8	18	2.2	.53	46
16	6.8	36	88	544	51	670	143	6.8	9.2	2.2	1.3	263
17	6.8	16	59	386	46	512	120	6.8	8.0	2.5	2.2	299
18	12	4.6	38	305	36	417	112	9.2	6.8	1.8	3.1	123
19	12	3.4	25	253	36	332	105	9.2	33	2.2	3.1	64
20	9.2	3.1	120	188	27	273	95	9.2	18	2.5	2.8	59
21	25	4.6	367	147	29	884	85	21	9.2	2.2	2.5	38
22	23	18	197	123	16	2650	127	31	8.0	2.2	1.8	9.2
23	29	18	116	105	59	1280	211	56	5.0	2.2	1.3	5.9
24	29	27	79	350	2690	816	392	46	11	4.1	.77	4.2
25	46	36	310	518	1150	564	263	31	56	3.4	.46	3.8
26	14	31	776	373	634	430	166	38	46	3.1	.87	206
27	4.6	14	386	299	1300	350	120	27	27	2.2	2.5	179
28	3.4	51	239	305	1280	430	95	18	9.2	3.4	2.8	112
29	3.1	85	162	327	---	2030	76	76	8.0	12	2.8	64
30	5.9	61	116	249	---	3980	105	56	8.0	8.0	2.8	684
31	23	---	92	220	---	2270	---	27	---	4.6	2.2	---
TOTAL	498.0	595.1	4263.7	14016	8607	38173	29400	1075.0	343.35	122.0	61.17	3208.92
MEAN	16.1	19.8	138	452	307	1231	980	34.7	11.4	3.94	1.97	107
MAX	46	85	776	2730	2690	4060	11400	92	56	16	3.8	684
MIN	3.1	2.8	5.9	56	16	273	76	6.8	.53	1.8	.46	.68
CFSM	.08	.10	.69	2.25	1.53	6.12	4.88	.17	.06	.02	.01	.53
IN.	.09	.11	.79	2.59	1.59	7.06	5.44	.20	.06	.02	.01	.59

CAL YR 1976 TOTAL 126174.20 MEAN 345 MAX 10600 MIN 2.8 CFSM 1.72 IN 23.35
WTR YR 1977 TOTAL 100363.24 MEAN 275 MAX 11400 MIN .46 CFSM 1.37 IN 18.57

02423630 SHADES CREEK NEAR GREENWOOD, AL

LOCATION.--Lat 33°19'34", long 86°56'59", in W½ sec. 3, T. 20 S., R. 4 W., Jefferson County, Hydrologic Unit 03150202, near left bank on downstream side of bridge on county road, 1.4 mi (2.3 km) southwest of Greenwood, 5.5 mi (8.8 km) south of Bessemer, and at mile 20.8 (33.5 km).

DRAINAGE AREA.--72.4 mi^2 (187.5 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1964 to September 1965, October 1966 to September 1973, October 1974 to current year (October 1965 to September 1966, annual maximum and October 1973 to September 1974, low-flow and flood hydrograph only).

GAGE.--Water-stage recorder. Datum of gage is 480.37 ft (146.417 m) above mean sea level.

REMARKS.--Water-discharge record good. Recording rain gage at station.

AVERAGE DISCHARGE.--11 years (water years 1965, 1967-73, 1975-77), 144 ft^3/s (4.078 m^3/s), 27.01 in/yr (686 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,220 ft^3/s (204 m^3/s) Mar. 20, 1970, gage height 13.04 ft (3.975 m); minimum, 11 ft^3/s (0.31 m^3/s) Sept. 16, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft^3/s (56.6 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 10	0645	2800	79.3	11.66	3.554
Mar. 6	2100	2430	68.8	11.44	3.487
Mar. 13	0615	2320	65.7	11.36	3.463
Mar. 22	1000	2140	60.6	11.21	3.417
Mar. 30	1215	3860	109	12.12	3.694
Apr. 5	0915	*4870	138	*12.45	3.795
Sept. 7	1945	3320	94.0	11.91	3.630

Minimum discharge, 13 ft^3/s (0.37 m^3/s) Sept. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	26	41	81	97	304	487	52	27	18	30	15
2	28	20	36	68	88	211	386	43	24	17	28	14
3	26	19	32	116	83	175	1410	42	22	16	54	14
4	23	18	31	134	82	682	1800	49	21	16	37	14
5	24	17	29	101	77	528	3920	55	20	15	36	14
6	24	17	29	107	69	1510	998	41	20	16	21	16
7	24	19	85	316	65	1230	371	37	21	17	18	2040
8	24	17	67	165	63	412	250	89	21	17	17	825
9	25	18	45	727	62	274	183	181	21	18	16	73
10	27	18	39	1940	60	209	142	49	20	46	17	49
11	22	20	43	462	61	177	117	38	18	22	21	49
12	22	46	163	244	70	715	98	33	18	25	16	31
13	22	33	247	190	149	1600	87	32	18	19	16	134
14	21	34	94	473	88	463	79	30	20	22	15	281
15	21	167	97	450	77	276	70	28	20	116	18	238
16	20	51	83	235	69	208	63	26	21	61	22	239
17	20	32	64	167	66	161	58	27	20	25	19	133
18	19	30	56	145	66	139	53	26	21	32	27	68
19	19	27	51	117	64	119	58	26	56	25	18	60
20	20	26	177	111	62	107	49	26	31	32	16	139
21	22	42	201	104	58	495	46	25	22	24	20	54
22	20	30	87	98	58	1580	235	47	20	18	17	39
23	18	26	73	87	71	488	604	81	20	18	21	33
24	17	25	64	102	1090	263	266	35	46	24	60	29
25	19	25	258	442	580	193	109	29	40	20	24	26
26	72	24	704	198	239	150	82	78	22	52	17	262
27	26	31	194	150	1130	124	68	47	21	43	24	79
28	20	46	134	165	796	244	59	69	20	39	21	72
29	18	130	104	163	---	995	53	78	21	174	16	49
30	30	58	85	114	---	2790	69	39	22	54	15	695
31	84	---	89	104	---	1450	---	30	---	29	15	---
TOTAL	809	1092	3502	8076	5540	18272	12270	1488	714	1070	712	5784
MEAN	26.1	36.4	113	261	198	589	409	48.0	23.8	34.5	23.0	193
MAX	84	167	704	1940	1130	2790	3920	181	56	174	60	2040
MIN	17	17	29	68	58	107	46	25	18	15	15	14
CFSM	.36	.50	1.56	3.61	2.74	8.14	5.65	.66	.33	.48	.32	2.67
IN.	.42	.56	1.80	4.15	2.85	9.39	6.30	.76	.37	.55	.37	2.97

CAL YR 1976 TOTAL 65526 MEAN 179 MAX 4890 MIN 17 CFSM 2.47 IN 33.67
WTR YR 1977 TOTAL 59329 MEAN 163 MAX 3920 MIN 14 CFSM 2.25 IN 30.48

02423630 SHADES CREEK NEAR GREENWOOD, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD. -October 1969 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1969 to current year.

INSTRUMENTATION.--Temperature recorder since October 1969.

REMARKS.--Miscellaneous samples of chemical data published for water year 1967, and 1969.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 28.5°C July 25, 1972; minimum, 1.0°C Jan. 19-20, 1977.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 27.0°C July 7, 23, and Aug. 16; minimum, 1.0°C Jan. 19-20.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
MAR 31...	1350	97	6.6	16.0	7.6	42	18	13	2.3	4.1	.3
AUG 31...	15	330	7.6	25.5	3.9	100	10	32	5.7	18	.8

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)
MAR 31...	1.3	30	0	20	3.2	.1	5.5	66	241	.23	1.0
AUG 31...	6.3	110	0	21	14	.1	7.1	178	7.31	4.5	20

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
MAR 31...	1	<1	1	<1	260	ND	62	<.2	40	20
AUG 31...	4	ND	ND	<1	20	<1	190	<.2	100	10

02423630 SHADES CREEK NEAR GREENWOOD, AL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	20.0	18.5	12.5	11.5	5.5	4.5	5.0	3.5	3.5	3.0	9.5	8.5
2	19.0	17.5	12.0	10.0	5.0	4.0	3.0	2.5	4.0	3.0	10.5	9.0
3	19.0	17.5	11.5	9.5	5.5	4.0	3.0	2.0	4.0	3.5	11.5	10.0
4	19.0	17.0	10.5	9.5	6.0	4.0	5.0	3.5	6.5	4.0	13.0	11.5
5	19.5	18.0	9.5	8.0	6.0	4.5	5.5	5.0	7.0	6.0	12.5	10.5
6	19.0	18.5	9.0	7.0	7.0	6.0	7.0	6.5	6.5	5.0	10.0	9.0
7	18.5	17.5	9.5	7.5	8.5	6.5	6.5	6.0	5.5	4.5	10.0	8.5
8	17.5	16.5	8.5	7.0	8.5	6.0	6.0	5.0	5.0	3.5	10.5	10.0
9	16.5	15.0	8.5	6.0	6.0	5.5	5.5	4.5	5.0	3.5	11.0	10.5
10	15.5	14.0	10.0	7.5	6.5	5.5	5.0	3.5	6.0	4.0	12.0	10.5
11	15.5	13.5	9.5	9.0	7.5	6.0	4.5	3.5	7.0	5.5	13.5	12.0
12	15.5	13.5	9.0	8.0	10.5	8.0	4.0	3.0	8.0	7.0	15.0	13.5
13	15.5	13.5	9.0	8.0	10.5	9.5	5.5	4.0	10.5	8.0	14.5	12.5
14	16.0	14.0	8.5	7.5	9.5	8.5	6.5	5.5	10.5	9.0	13.5	12.5
15	16.0	14.0	8.5	7.5	8.5	8.5	7.0	6.5	10.0	9.0	14.0	13.0
16	16.0	15.0	9.0	8.0	9.5	8.5	7.0	5.0	9.0	7.5	15.0	13.5
17	15.5	14.0	9.5	8.5	8.5	8.0	5.0	3.0	8.0	7.0	15.0	14.0
18	14.5	13.0	10.0	8.0	8.5	7.5	2.5	2.0	9.5	7.0	15.5	14.5
19	14.0	13.0	10.0	9.0	9.0	8.0	1.5	1.0	10.5	8.5	15.5	15.0
20	13.5	12.5	10.5	9.5	11.0	9.0	2.0	1.0	10.5	9.5	15.5	14.5
21	12.5	11.5	10.5	9.5	10.5	6.5	3.0	2.0	10.0	9.0	15.0	12.0
22	12.5	10.5	10.0	8.0	6.5	3.5	3.5	2.5	11.0	9.0	13.5	10.5
23	12.5	11.0	8.0	7.0	3.5	3.0	4.0	3.0	12.0	10.5	12.0	11.0
24	13.5	12.5	8.0	6.5	3.5	2.5	5.0	3.5	12.0	10.5	12.5	11.5
25	14.5	13.5	8.5	6.5	5.5	3.0	5.0	4.0	11.5	10.0	14.5	12.5
26	15.5	13.5	9.5	8.0	6.0	5.0	5.5	4.5	14.0	11.5	15.0	13.5
27	14.5	13.0	11.0	9.5	6.5	5.0	7.0	5.5	14.0	10.5	16.0	14.5
28	12.5	11.0	11.5	10.0	7.5	5.0	8.0	7.0	10.5	9.0	16.0	15.5
29	11.0	10.0	11.0	8.0	7.5	6.5	8.0	4.5	---	---	15.5	15.5
30	12.0	10.5	8.0	5.5	7.0	6.0	4.5	3.0	---	---	17.5	15.5
31	13.0	11.0	---	---	7.0	5.0	4.0	3.0	---	---	16.5	15.5
MONTH	20.0	10.0	12.5	5.5	11.0	2.5	8.0	1.0	14.0	3.0	17.5	8.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	16.0	14.5	19.5	18.0	24.0	22.0	26.0	24.5	25.0	23.0	25.0	24.0
2	17.0	14.5	19.0	18.0	23.5	21.5	26.5	24.5	24.0	22.0	24.0	23.0
3	18.0	17.0	19.5	18.5	23.5	21.5	26.0	24.0	24.5	23.0	24.5	23.0
4	17.5	16.0	19.5	18.5	23.5	21.0	25.5	23.5	24.5	23.5	24.5	23.5
5	16.5	13.5	20.5	19.0	23.5	21.0	26.0	23.5	24.5	23.0	24.5	23.5
6	13.5	12.5	21.0	19.5	24.0	21.5	26.5	24.5	25.0	23.0	24.0	22.5
7	14.5	13.5	21.5	19.5	23.0	21.5	27.0	25.0	26.0	23.5	23.5	22.5
8	16.0	14.5	22.0	19.0	21.5	19.5	26.5	25.0	26.0	24.0	23.0	22.5
9	16.5	15.5	22.0	19.0	21.5	19.0	26.0	24.5	26.5	24.5	23.0	22.5
10	16.5	15.5	19.0	17.5	22.0	20.0	25.5	24.0	26.5	24.5	22.5	22.0
11	17.0	16.0	18.5	17.0	23.0	20.5	25.0	23.5	26.0	24.5	23.0	21.5
12	17.5	16.5	19.0	17.0	24.0	22.0	25.5	24.0	26.0	24.5	22.5	21.5
13	18.0	17.5	19.0	17.0	25.0	22.5	26.0	24.0	26.0	24.5	24.0	21.0
14	18.5	17.5	19.0	17.0	24.5	23.0	26.5	24.5	26.0	24.5	23.5	22.5
15	18.5	17.0	19.5	17.0	24.5	23.0	26.5	24.5	26.5	24.5	23.5	22.5
16	18.5	17.0	20.0	17.5	24.0	23.5	25.0	24.0	27.0	25.0	24.0	22.5
17	18.5	17.0	20.5	18.5	24.5	23.0	26.5	24.5	26.5	25.0	23.0	22.5
18	18.5	17.5	21.0	19.0	24.0	23.0	25.5	24.0	26.5	25.5	23.5	22.5
19	19.0	18.0	21.5	19.5	24.5	23.0	25.5	24.5	26.0	24.0	23.0	22.5
20	19.5	18.5	21.5	20.0	25.5	24.0	26.0	24.5	25.0	24.5	23.5	22.5
21	19.0	18.5	22.0	20.0	26.0	24.0	26.5	25.0	25.0	24.0	22.5	21.5
22	19.0	18.0	21.0	20.0	26.0	24.0	26.5	25.0	25.5	23.5	22.0	21.0
23	18.5	18.0	21.0	20.5	26.5	24.5	27.0	24.5	26.0	24.0	22.0	20.5
24	18.0	17.5	21.5	20.0	26.0	24.0	26.0	25.0	26.0	24.0	22.0	21.0
25	17.5	16.0	21.0	20.0	26.5	25.5	26.5	25.0	26.0	25.5	23.0	21.5
26	16.0	15.0	22.0	20.0	26.0	25.0	25.5	25.0	26.0	25.0	23.5	21.5
27	15.5	14.0	22.0	21.0	26.5	25.0	26.5	24.5	25.5	24.0	22.0	20.5
28	16.0	14.0	22.0	20.5	26.5	25.0	25.0	24.5	25.5	24.0	22.0	20.5
29	17.0	15.5	22.0	20.0	25.5	24.5	26.0	24.0	25.5	24.0	21.0	20.0
30	18.5	16.5	23.0	21.5	25.5	24.0	25.0	24.0	25.5	24.0	20.5	19.5
31	---	---	23.5	22.0	---	---	25.0	23.5	25.5	24.0	---	---
MONTH	19.5	12.5	23.5	17.0	26.5	19.0	27.0	23.5	27.0	22.0	25.0	19.5

02423647 CAHABA RIVER NEAR WEST BLOCTON, AL

LOCATION.--Lat 33°05'53", long 87°03'17", in NE¼ sec. 3, T. 24 N., R. 10 E., Bibb County, Hydrologic Unit 03150202, 20 ft (6 m) from left downstream bridge corner on paved county road, 0.2 mi (0.3 km) upstream from Little Ugly Creek, 4.4 mi (7.1 km) east of West Blocton, and at mile 95.8 (154.1 km).

DRAINAGE AREA.--592 mi^2 (1,533 km^2).

PERIOD OF RECORD.--September 1976 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 240 ft (73 m) from topographic map.

REMARKS.--Records good. Records of specific conductance and water temperatures for the water year 1977 are published under miscellaneous water-quality sites in this report. An average of 82 ft^3/s (2.32 m^3/s) is diverted above station by Birmingham Water Works Co., and is not included in records except about 7 ft^3/s (0.20 m^3/s) which is returned to river above station. Flow partly regulated by Purdy Lake (capacity, 15,300 acre-ft or 18.9 hm^3) on Little Cahaba River.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 36,900 ft^3/s (1,045 m^3/s) Mar. 16, 1976, gage height, 18.75 ft (5.715 m); minimum, 73 ft^3/s (2.07 m^3/s) Nov. 8, 1976; minimum gage height, 1.95 ft (0.594 m) Oct. 19, 20, 21, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 12,000 ft^3/s (340 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 22	0100	17500	496	12.35	3.764	Apr. 6	0400	19500	552	13.12	3.999
Mar. 30	2100	*23200	657	*14.45	4.404						

Minimum discharge, 73 ft^3/s (207 m^3/s) Nov. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	214	153	220	510	681	2710	6520	469	200	130	242	142
2	163	110	175	453	608	1930	3770	437	179	114	195	134
3	129	96	151	461	544	1460	6110	407	159	107	215	126
4	115	90	138	681	510	2380	10600	393	149	103	302	122
5	108	87	130	681	485	3270	17900	386	141	103	215	122
6	103	81	126	672	453	7000	17200	350	138	97	190	185
7	97	77	138	1260	407	9040	6710	312	131	93	160	3880
8	93	75	247	1490	379	4470	2980	283	123	100	142	3810
9	93	75	215	2980	350	2710	2250	418	120	110	138	1100
10	93	78	180	9970	329	2100	1790	382	118	126	134	422
11	104	78	170	5580	322	1710	1440	276	114	142	130	309
12	101	81	271	2410	329	3880	1170	259	112	138	134	259
13	95	100	900	1730	535	10300	995	242	109	122	138	247
14	93	130	739	1870	571	7700	869	227	100	118	126	942
15	90	220	461	2750	469	3240	759	221	100	114	130	1120
16	87	296	415	2110	407	2310	672	207	102	247	122	662
17	83	175	322	1540	379	1800	617	201	110	242	147	1270
18	80	138	259	1250	372	1490	571	195	114	142	156	779
19	76	126	220	1030	358	1250	535	191	114	134	151	501
20	77	118	231	879	343	1060	518	190	160	134	156	562
21	77	110	617	759	329	4990	469	187	151	130	147	422
22	77	122	617	635	316	13600	553	203	126	138	134	296
23	78	118	393	580	365	6800	1830	316	114	138	134	242
24	81	107	289	879	4090	3200	1340	313	170	160	134	209
25	90	107	422	1800	5600	2300	1060	236	277	180	195	195
26	126	110	2470	1410	2660	1790	769	206	180	185	209	195
27	185	110	2140	1140	3730	1430	617	297	175	309	180	662
28	111	134	1250	984	4760	1490	527	221	151	599	147	445
29	91	358	879	1020	---	8440	469	249	142	379	165	386
30	88	343	681	869	---	20600	430	283	126	493	165	2800
31	98	---	562	749	---	17600	---	236	---	247	160	---
TOTAL	3196	4003	16028	51132	30681	154050	92040	8793	4205	5574	5093	22546
MEAN	103	133	517	1649	1096	4969	3068	284	140	180	164	752
MAX	214	358	2470	9970	5600	20600	17900	469	277	599	302	3880
MIN	76	75	126	453	316	1060	430	187	100	93	122	122
CFSM	.17	.23	.87	2.79	1.85	8.39	5.18	.48	.24	.30	.28	1.27
IN.	.20	.25	1.01	3.21	1.93	9.68	5.78	.55	.26	.35	.32	1.42

CAL YR 1976 TOTAL 474927 MEAN 1298 MAX 35100 MIN 75 CFSM 2.19 IN 29.84
WTR YR 1977 TOTAL 397341 MEAN 1089 MAX 20600 MIN 75 CFSM 1.84 IN 24.97

02424000 CAHABA RIVER AT CENTREVILLE, AL

LOCATION.--Lat 32°56'42", long 87°08'21", in E½ sec. 26, T. 23 N., R. 9 E., Bibb County, Hydrologic Unit 03150202, on left bank 60 ft (18 m) downstream from bridge on U.S. Highway 82, 0.2 mi (0.3 km) west of Centreville, 0.5 mi (0.8 km) upstream from Gulf, Mobile & Ohio Railroad bridge, 2.5 mi (4.0 km) upstream from Sandy Creek, and at mile 81.2 (130.7 km).

DRAINAGE AREA.--1,029 mi^2 (2,665 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1901 to February 1908, May 1929 to March 1932, May 1935 to current year. Gage-height records collected at same site from January 1917 to December 1971 are contained in reports of the National Weather Service.

REVISED RECORDS.--WSP 682: 1901-08. WSP 1384: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 180.74 ft (55.090 m) above mean sea level. Prior to Jan. 31, 1939, nonrecording gage at same site. Prior to May 1929, at datum 1.15 ft (0.351 m) lower.

REMARKS.--Water-discharge record good. An average of 82 ft^3/s (2.32 m^3/s) is diverted above station by Birmingham Water Works Co., and is not included in records except about 7 ft^3/s (0.20 m^3/s) which is returned to river above station. Flow partly regulated by Purdy Lake; capacity, 15,300 acre-ft (18.9 hm^3) on Little Cahaba River.

AVERAGE DISCHARGE.--50 years (water years 1901-07, 1929-31, 1935-77), 1,607 ft^3/s (45.5 m^3/s), 21.21 in/yr (539 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 83,600 ft^3/s (2,370 m^3/s) Mar. 29, 1951; maximum gage height, 36.63 ft (11.165 m), Apr. 8, 1938; minimum, 90 ft^3/s (2.55 m^3/s) Oct. 24-29, 1904, gage height -0.35 ft (-0.107 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 20,000 ft^3/s (566 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3.s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 22	0600	35100	994	28.83	8.787	Apr. 5	1100	31100	881	27.83	8.483
Mar. 30	1800	*46700	1320	*31.15	9.495						

Minimum discharge, 232 ft^3/s (6.57 m^3/s) Sept. 3, 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	485	464	660	967	1190	4140	11700	976	593	391	572	245
2	457	385	551	860	1090	3020	7330	945	534	376	513	237
3	382	343	481	900	1020	2360	9230	904	506	355	436	237
4	349	320	436	1260	990	3990	14400	913	478	340	579	242
5	334	307	406	1220	931	5200	28000	904	457	328	481	260
6	320	307	394	1170	864	10400	23700	876	446	322	443	288
7	320	302	446	1580	796	12000	11000	784	436	312	379	4020
8	320	295	593	2050	740	6570	5460	740	418	320	346	3990
9	322	295	600	4870	704	4040	4160	876	425	450	328	1570
10	320	297	520	15100	680	3200	3410	940	409	406	315	684
11	322	300	516	8420	660	2670	2870	740	406	425	302	509
12	325	315	840	3770	684	7080	2480	688	397	385	300	415
13	317	328	1800	2690	1070	17100	2180	664	382	352	300	418
14	312	425	1670	2780	1210	11200	1980	632	370	370	292	812
15	307	600	1190	3940	967	5300	1810	621	361	370	302	1170
16	300	828	1070	3160	852	3790	1650	600	391	516	282	1110
17	297	541	876	2320	780	2930	1520	579	388	499	292	1280
18	285	436	736	1940	760	2470	1400	569	394	361	315	1080
19	282	394	646	1690	732	2120	1320	558	385	364	317	748
20	285	379	692	1490	696	1910	1270	548	446	361	310	760
21	285	364	1170	1360	664	7770	1190	551	474	340	307	716
22	282	355	1320	1210	635	29200	1320	583	409	391	295	513
23	288	364	1030	1100	780	11600	3160	728	382	429	295	429
24	290	334	852	1330	10000	5610	2560	812	481	370	297	373
25	376	334	999	2470	8460	4060	1950	672	639	576	317	349
26	432	349	4190	2110	4200	3160	1560	597	548	621	358	337
27	537	382	3410	1770	6070	2600	1320	672	460	632	340	653
28	425	579	2010	1590	6640	2660	1180	642	436	931	300	653
29	325	1000	1490	1570	---	23900	1080	800	394	1050	295	558
30	334	936	1200	1430	---	44600	999	724	409	1020	285	2530
31	370	---	1040	1270	---	30300	---	653	---	642	262	---
TOTAL	10585	12858	33834	79387	54865	276950	153189	22491	13254	14605	10755	27186
MEAN	341	429	1091	2561	1959	8934	5106	726	442	471	347	906
MAX	537	1000	4190	15100	10000	44600	28000	976	639	1050	579	4020
MIN	282	295	394	860	635	1910	999	548	361	312	262	237
CFSM	.33	.42	1.06	2.49	1.90	8.68	4.96	.71	.43	.46	.34	.88
IN.	.38	.46	1.22	2.87	1.98	10.01	5.54	.81	.48	.53	.39	.98

CAL YR 1976 TOTAL 854049 MEAN 2333 MAX 55400 MIN 282 CFSM 2.27 IN 30.88
WTR YR 1977 TOTAL 709959 MEAN 1945 MAX 44600 MIN 237 CFSM 1.89 IN 25.67

MOBILE RIVER BASIN

02424000 CAHABA RIVER AT CENTREVILLE, AL--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.85	2.84	3.39	4.15	4.65	10.30	20.38	4.17	3.21	2.62	3.15	2.08
2	2.82	2.60	3.09	3.90	4.43	8.04	15.10	4.10	3.04	2.57	2.98	2.05
3	2.59	2.46	2.89	3.99	4.27	6.94	15.62	4.01	2.96	2.50	2.76	2.05
4	2.48	2.38	2.75	4.79	4.20	9.17	20.83	4.03	2.88	2.45	3.16	2.06
5	2.43	2.33	2.67	4.72	4.07	11.43	26.98	4.01	2.82	2.41	2.89	2.14
6	2.38	2.33	2.63	4.59	3.91	16.05	25.66	3.94	2.79	2.39	2.78	2.23
7	2.38	2.31	2.79	5.45	3.74	20.02	19.93	3.71	2.76	2.35	2.58	9.07
8	2.38	2.28	3.20	6.39	3.60	14.66	12.30	3.60	2.71	2.38	2.47	9.93
9	2.39	2.28	3.23	9.65	3.51	10.01	9.95	3.94	2.73	2.80	2.41	5.50
10	2.38	2.29	3.00	22.01	3.45	8.33	8.66	4.09	2.68	2.67	2.36	3.46
11	2.39	2.30	2.99	17.36	3.40	7.45	7.80	3.60	2.67	2.73	2.31	2.96
12	2.40	2.36	3.83	9.61	3.45	12.03	7.13	3.47	2.64	2.60	2.30	2.70
13	2.37	2.41	5.89	7.49	4.36	23.03	6.64	3.41	2.59	2.49	2.30	2.71
14	2.35	2.73	5.63	7.65	4.68	19.77	6.26	3.32	2.55	2.55	2.27	3.71
15	2.33	3.22	4.64	9.57	4.15	12.23	5.92	3.29	2.52	2.55	2.31	4.58
16	2.30	3.82	4.37	8.25	3.88	9.30	5.59	3.23	2.62	2.98	2.23	4.44
17	2.29	3.06	3.94	6.86	3.70	7.89	5.33	3.17	2.61	2.93	2.27	4.81
18	2.24	2.76	3.59	6.17	3.65	7.11	5.10	3.14	2.63	2.52	2.36	4.40
19	2.23	2.63	3.36	5.68	3.58	6.54	4.94	3.11	2.60	2.53	2.37	3.62
20	2.24	2.58	3.48	5.27	3.49	6.11	4.82	3.08	2.79	2.52	2.34	3.65
21	2.24	2.53	4.56	5.01	3.41	11.05	4.65	3.09	2.87	2.45	2.33	3.53
22	2.23	2.50	4.94	4.67	3.33	27.23	4.91	3.17	2.68	2.62	2.28	2.98
23	2.25	2.53	4.28	4.44	3.66	20.20	8.13	3.57	2.59	2.73	2.28	2.74
24	2.26	2.43	3.88	4.93	15.41	12.72	7.28	3.78	2.88	2.55	2.29	2.56
25	2.56	2.43	4.18	7.11	16.87	9.76	6.19	3.43	3.34	3.15	2.36	2.48
26	2.75	2.48	9.64	6.51	10.46	8.27	5.41	3.22	3.07	3.29	2.51	2.44
27	3.05	2.59	8.63	5.84	11.97	7.34	4.94	3.43	2.83	3.31	2.45	3.34
28	2.72	3.15	6.29	5.48	13.89	7.44	4.62	3.35	2.76	4.06	2.30	3.38
29	2.40	4.23	5.28	5.43	---	20.10	4.40	3.75	2.63	4.32	2.28	3.11
30	2.43	4.08	4.65	5.15	---	30.75	4.22	3.56	2.68	4.26	2.24	6.62
31	2.55	---	4.32	4.82	---	27.46	---	3.38	---	3.35	2.15	---
MEAN	2.44	2.70	4.26	6.87	5.61	13.18	9.66	3.55	2.77	2.83	2.45	3.71
MAX	3.05	4.23	9.64	22.01	16.87	30.75	26.98	4.17	3.34	4.32	3.16	9.93
MIN	2.23	2.28	2.63	3.90	3.33	6.11	4.22	3.08	2.52	2.35	2.15	2.05

02424000 CAHABA RIVER AT CENTREVILLE, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1970 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965, 1966, and 1968.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
SEP 28...	660	222	7.9	24.5	7.8	99	24	25	8.8	5.6	.2

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)
SEP 28...	1.0	91	0	18	3.6	.1	6.6	117	208	.78	3.5

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
SEP 28...	ND	<1	ND	<1	40	<1	14	ND	70	20

02424940 OAKMULGEE CREEK NEAR AUGUSTIN, AL

LOCATION.--Lat 32°32'01", long 87°05'24", in SE¼ sec. 17, T. 18 N., R. 10 E., Dallas-Perry County line, Hydrologic Unit 03150202, on downstream side of State Highway 219 bridge, 2 mi (3 km) north of Augustin.

DRAINAGE AREA.--215 mi^2 (557 km^2).

PERIOD OF RECORD.--May 1975 to current year.

GAGE.--Water-stage recorder. Datum of gage is 139.71 ft (42.584 m) above mean sea level.

REMARKS.--Records good except for discharges above 2,690 ft^3/s (76.2 m^3/s), which are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,930 ft^3/s (253 m^3/s) Apr. 1, 1976, gage height, 15.32 ft (4.670 m); minimum, 27 ft^3/s (0.76 m^3/s) July 8, 1977, gage height, 2.63 ft (0.802 m).

EXTREMES FOR CURRENT PERIOD.--Peak discharges above base of 2,310 ft^3/s (65 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
1976											
Jan. 26	0700	2430	68.8	9.67	2.947	Apr. 1	1400	*8930	253	*15.32	4.670
Mar. 16	0900	3290	93.2	10.72	3.267	May 16	0100	4360	123	11.79	3.594
Mar. 28	2000	5000	142	12.43	3.789						
1977											
Feb. 26	0400	3070	86.9	10.48	3.194	Mar. 31	1900	*4500	127	*11.93	3.636
Mar. 14	1300	2900	82.1	10.26	3.127						

Minimum discharge, 27 ft^3/s (0.76 m^3/s) July 8, 1977, gage height, 2.63 ft (0.802 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	108	394	247	253	972	4340	145	78	39	190	44
2	72	106	247	222	253	762	2730	139	71	37	145	42
3	70	93	181	321	253	566	1350	135	65	36	247	39
4	69	86	160	384	260	853	1160	142	61	35	123	40
5	70	83	148	408	243	947	1300	142	56	34	129	46
6	70	81	142	381	222	1160	1270	138	54	33	135	51
7	72	81	169	425	205	1080	1190	126	56	32	118	69
8	73	80	190	398	195	972	832	118	61	31	89	118
9	76	80	179	664	190	758	643	117	56	31	76	150
10	79	81	160	1150	185	590	534	108	52	33	68	114
11	79	82	179	1240	181	517	475	100	50	34	61	82
12	77	90	465	1300	183	1150	425	94	48	50	56	79
13	73	100	730	790	270	2050	378	90	46	65	53	89
14	71	111	744	762	344	2640	341	88	44	56	50	79
15	70	225	632	727	378	1550	307	85	44	50	49	115
16	68	274	428	685	274	909	280	83	46	57	52	231
17	68	263	337	548	222	678	257	81	50	68	54	219
18	68	181	280	428	200	576	231	77	50	60	60	207
19	68	139	231	398	192	503	213	75	54	55	83	187
20	68	136	222	381	185	462	200	76	50	64	78	354
21	67	154	219	354	175	513	187	89	47	49	71	253
22	66	142	219	331	169	755	247	115	44	54	72	253
23	66	129	205	307	294	1050	482	102	43	57	66	147
24	66	118	179	361	1940	1010	468	89	44	59	61	108
25	73	112	290	415	2260	646	468	83	51	59	65	90
26	93	115	632	451	2220	492	314	79	63	69	61	83
27	103	136	650	404	1350	425	219	79	54	86	58	81
28	103	257	709	337	1020	492	183	84	46	112	56	80
29	88	425	472	310	---	846	165	90	42	240	52	78
30	87	415	337	277	---	2170	154	89	41	384	50	85
31	105	---	287	263	---	2200	---	87	---	337	47	---
TOTAL	2346	4483	10417	15669	14116	30294	21343	3145	1567	2406	2575	3613
MEAN	75.7	149	336	505	504	977	711	101	52.2	77.6	83.1	120
MAX	105	425	744	1300	2260	2640	4340	145	78	384	247	354
MIN	66	80	142	222	169	425	154	75	41	31	47	39
CFSM	.35	.69	1.56	2.35	2.34	4.54	3.31	.47	.24	.36	.39	.56
IN.	.41	.78	1.80	2.71	2.44	5.24	3.69	.54	.27	.42	.45	.63

CAL YR 1976 TOTAL 157100 MEAN 429 MAX 8060 MIN 28 CFSM 2.00 IN 27.18
WTR YR 1977 TOTAL 111974 MEAN 307 MAX 4340 MIN 31 CFSM 1.43 IN 19.37

02424940 OAKMULGEE CREEK NEAR AUGUSTIN, AL--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	302	168	311	1200	562	266	8060	251	263	71	287	144
2	398	162	317	1270	506	254	3790	283	263	64	208	144
3	362	157	343	1530	470	245	1710	301	311	60	112	162
4	291	155	282	1350	432	245	1180	234	317	65	75	178
5	220	153	242	1190	400	245	907	195	260	130	58	320
6	301	152	224	979	520	352	769	178	215	126	50	257
7	647	152	221	753	512	579	672	212	180	122	134	324
8	1140	152	219	814	502	569	601	434	160	92	200	272
9	1410	153	217	946	432	635	537	727	144	70	136	218
10	1250	160	209	933	380	601	484	687	134	57	73	302
11	814	170	196	694	358	628	445	484	126	52	52	178
12	537	443	187	635	341	510	421	456	120	51	44	122
13	414	645	182	604	327	1360	411	550	112	49	39	102
14	347	586	178	658	317	1620	411	1240	104	45	36	88
15	303	484	178	583	305	2050	380	3200	96	41	34	80
16	291	316	225	585	296	2580	353	3600	90	39	34	73
17	564	263	476	495	290	2500	329	1710	87	38	40	69
18	615	236	588	436	305	2250	305	905	86	38	40	67
19	681	219	542	399	311	1390	284	595	99	38	36	64
20	563	214	456	374	305	921	269	464	150	38	33	63
21	387	266	345	365	334	1240	258	386	156	36	31	64
22	317	268	303	354	544	1180	301	337	144	33	30	75
23	281	258	279	340	548	1070	269	423	102	32	29	73
24	255	226	261	327	565	795	241	670	86	32	28	68
25	235	212	352	342	397	656	280	796	78	36	136	65
26	221	206	614	2050	338	653	295	563	73	36	136	65
27	214	288	644	1930	311	1780	296	389	70	34	198	67
28	209	288	738	1700	293	4110	245	335	67	202	674	68
29	203	267	537	1140	278	2790	213	369	68	344	582	70
30	192	236	466	747	---	2070	201	373	70	324	414	78
31	178	---	1120	629	---	4270	---	316	---	296	208	---
TOTAL	14142	7655	11452	26352	11479	40414	24917	21663	4231	2691	4187	3920
MEAN	456	255	369	850	396	1304	831	699	141	86.8	135	131
MAX	1410	645	1120	2050	565	4270	8060	3600	317	344	674	324
MIN	178	152	178	327	278	245	201	178	67	32	28	63
CFSM	2.12	1.19	1.72	3.95	1.84	6.07	3.87	3.25	.66	.40	.63	.61
IN.	2.45	1.32	1.98	4.56	1.99	6.99	4.31	3.75	.73	.47	.72	.68

WTR YR 1976 TOTAL 173103 MEAN 473 MAX 8060 MIN 28 CFSM 2.20 IN 29.95

02424940 OAKMULGEE CREEK NEAR AUGUSTIN, AL--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								719	281	272	834	134
2								694	222	176	1160	115
3								526	178	146	988	103
4								453	154	190	729	94
5								408	138	172	495	90
6								404	132	132	663	94
7								390	158	190	957	146
8								428	212	348	1310	233
9								509	260	628	834	320
10								750	266	677	631	242
11								743	251	404	561	190
12								537	365	323	691	156
13								386	481	230	530	158
14								320	369	178	379	126
15								314	317	154	287	111
16								334	432	154	239	102
17								477	425	138	207	102
18								463	275	124	225	114
19								512	195	117	281	118
20								348	210	114	272	114
21								272	400	227	233	103
22								233	334	414	190	117
23								210	233	320	164	425
24								192	170	269	164	614
25								176	140	168	152	701
26								168	126	195	172	526
27								200	118	281	195	302
28								202	114	390	205	222
29								207	190	320	154	185
30								225	477	266	132	166
31								293	---	547	132	---
TOTAL								12093	7623	8264	14166	6223
MEAN								390	254	267	457	207
MAX								750	481	677	1310	701
MIN								168	114	114	132	90
CFSM								1.81	1.18	1.24	2.13	.96
IN.								2.09	1.32	1.43	2.45	1.08

02425000 CAHABA RIVER NEAR MARION JUNCTION, AL

LOCATION.--Lat 32°26'38", long 87°10'49", in SE¼ sec. 16, T. 17 N., R. 9 E., Dallas County, Hydrologic Unit 03150203, on right bank 10 ft (3 m) downstream from bridge on U.S. Highway 80, 3.8 mi (6.1 km) downstream from Oakmulgee Creek, 3.5 mi (5.6 km) east of Marion Junction, and 21.4 mi (34.4 km) above the mouth.

DRAINAGE AREA.--1,768 mi^2 (4,579 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1938 to September 1954, October 1968 to current year. Monthly discharge only October to December 1938, published in WSP 1304. Gage-height records collected at same site from 1939 to 1971 are contained in reports of the National Weather Service.

REVISED RECORDS.--WSP 1304: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 86.72 ft (26.432 m) above mean sea level (levels by Corps of Engineers). Auxiliary water-stage recorder 6.2 mi (10.0 km) downstream from base gage at same datum. October 1940 to September 1954, nonrecording gage 12 mi (19 km) downstream from base gage at same datum.

REMARKS.--Water-discharge records good. For diversion above station see Remarks for station at Centreville.

AVERAGE DISCHARGE.--25 years (water years 1939-54, 1969-77), 2,896 ft^3/s (82.01 m^3/s), 22.24 in/yr (565 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 83,400 ft^3/s (2,360 m^3/s) Aug. 16, 1939, gage height, 42.95 ft (13.091 m); minimum observed, 224 ft^3/s (6.34 m^3/s) Sept. 16, 1954, gage height, 0.80 ft (0.244 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Feb. 24, 1961, reached a stage of 43.80 ft (13.350 m), present datum, from floodmarks (discharge not determined).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 14,000 ft^3/s (396 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 12	2400	14800	419	22.89	6.977	Mar. 16	0200	20400	578	28.23	8.605
Feb. 27	0700	14500	411	22.46	6.846	Mar. 25	0600	22200	629	29.71	9.056
Mar. 9	1500	14900	422	23.01	7.013	Apr. 1	2100	*46600	1320	*38.86	11.845

Minimum discharge, 411 ft^3/s (11.6 m^3/s) Sept. 3, 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	795	835	2010	1940	2290	11000	39700	1640	1010	660	1660	466
2	1000	867	1520	1770	2180	9550	41700	1560	940	644	1260	438
3	844	835	1240	2160	2070	6220	33000	1530	849	636	1310	417
4	768	745	1100	2400	2010	7300	27000	1520	795	604	1150	414
5	678	700	1000	2600	1920	8530	23400	1550	750	584	1190	435
6	673	669	945	2520	1800	10200	22800	1530	718	568	1130	487
7	669	660	1010	2800	1680	11500	25900	1410	709	552	1010	925
8	673	648	1100	3110	1580	13400	28300	1310	705	540	880	2680
9	678	644	1150	4980	1500	14700	26300	1250	682	536	786	3040
10	682	636	1180	8710	1450	12300	19500	1280	682	548	696	2080
11	678	648	1300	11700	1400	7070	11200	1370	664	673	648	1910
12	660	691	2360	14100	1390	8330	6380	1190	652	709	608	1100
13	656	736	3480	13400	1760	13300	4990	1090	636	745	568	1070
14	644	777	3800	7830	2260	16100	4180	1050	632	723	564	1360
15	632	1220	3460	6400	2400	19400	3660	1010	624	660	560	1360
16	624	1430	2660	6800	1900	19600	3270	975	612	700	564	1910
17	624	1540	2200	5680	1670	14600	2960	950	727	723	596	1860
18	620	1230	1850	4290	1550	7650	2660	916	763	831	600	1660
19	616	990	1570	3590	1500	5540	2430	894	709	817	636	1760
20	608	925	1450	3200	1470	4810	2270	889	696	718	678	1590
21	600	960	1480	2960	1390	4810	2130	880	696	714	620	1520
22	588	907	1800	2720	1330	8730	2220	912	773	700	620	1420
23	584	844	2020	2450	1560	13300	3300	907	718	682	608	1110
24	584	813	1690	2500	8570	19700	4680	1010	669	750	576	898
25	616	781	1990	3110	11100	21500	4200	1130	750	741	540	808
26	759	781	3660	4070	13600	16200	3170	1040	1030	773	616	727
27	912	840	6100	3690	13900	8130	2540	960	985	1140	644	673
28	930	1420	5630	3150	11200	5830	2150	970	795	1340	588	898
29	858	1920	3650	2870	---	7580	1900	1050	732	1710	523	1050
30	754	2150	2730	2670	---	13800	1750	1100	687	2310	501	955
31	777	---	2240	2500	---	22700	---	1080	---	2210	491	---
TOTAL	21784	28842	69375	142670	98430	363380	359640	35953	22390	26241	23421	37021
MEAN	703	961	2238	4602	3515	11720	11990	1160	746	846	756	1234
MAX	1000	2150	6100	14100	13900	22700	41700	1640	1030	2310	1660	3040
MIN	584	636	945	1770	1330	4810	1750	880	612	536	491	414
CFSM	.40	.54	1.27	2.60	1.99	6.63	6.78	.66	.42	.48	.43	.70
IN.	.46	.61	1.46	3.00	2.07	7.65	7.57	.76	.47	.55	.49	.78

CAL YR 1976 TOTAL 1506166 MEAN 4115 MAX 49800 MIN 584 CFSM 2.33 IN 31.69
WTR YR 1977 TOTAL 1229147 MEAN 3368 MAX 41700 MIN 414 CFSM 1.91 IN 25.86

02425000 CAHABA RIVER NEAR MARION JUNCTION, AL--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.60	2.75	5.17	5.15	5.75	18.15	37.73	4.97	3.30	2.36	4.29	1.94
2	3.04	2.83	4.23	4.83	5.57	16.17	38.31	4.80	3.16	2.31	3.50	1.86
3	2.72	2.75	3.68	5.52	5.39	11.46	36.53	4.73	2.95	2.28	3.62	1.79
4	2.55	2.56	3.40	5.93	5.29	13.00	33.32	4.69	2.82	2.20	3.30	1.78
5	2.40	2.46	3.22	6.26	5.13	14.76	30.58	4.75	2.72	2.14	3.38	1.85
6	2.35	2.39	3.10	6.14	4.89	17.07	30.17	4.68	2.64	2.09	3.28	2.00
7	2.34	2.37	3.24	6.60	4.65	18.70	32.51	4.44	2.62	2.05	3.06	3.04
8	2.35	2.35	3.43	7.11	4.44	21.12	34.35	4.22	2.60	2.01	2.79	6.30
9	2.37	2.34	3.52	9.97	4.28	22.80	32.81	4.09	2.54	2.00	2.58	6.90
10	2.38	2.32	3.60	15.35	4.18	19.73	27.37	4.13	2.54	2.02	2.39	5.30
11	2.37	2.35	3.83	19.01	4.09	12.67	18.61	4.30	2.49	2.32	2.29	5.00
12	2.33	2.45	5.82	22.02	4.06	14.39	12.62	3.92	2.45	2.40	2.19	3.38
13	2.32	2.54	7.70	21.17	4.77	20.94	10.64	3.72	2.41	2.47	2.10	3.33
14	2.29	2.65	8.24	14.11	5.70	24.27	9.49	3.62	2.39	2.41	2.10	3.90
15	2.27	3.56	7.67	12.07	5.94	27.32	8.62	3.53	2.37	2.27	2.10	3.90
16	2.25	3.98	6.34	12.64	5.09	27.58	7.97	3.45	2.33	2.35	2.11	5.00
17	2.25	4.21	5.58	11.03	4.62	22.48	7.45	3.38	2.59	2.40	2.20	4.90
18	2.24	3.58	4.96	9.04	4.38	13.49	6.96	3.30	2.67	2.63	2.22	4.50
19	2.23	3.11	4.42	7.92	4.29	10.48	6.57	3.23	2.54	2.59	2.32	4.70
20	2.21	2.99	4.19	7.26	4.22	9.45	6.27	3.21	2.50	2.37	2.42	4.37
21	2.20	3.06	4.25	6.87	4.06	9.44	6.03	3.18	2.50	2.35	2.29	4.22
22	2.17	2.95	4.87	6.47	3.95	15.03	6.17	3.23	2.66	2.31	2.30	4.02
23	2.16	2.82	5.30	6.01	4.35	20.99	7.96	3.21	2.54	2.27	2.28	3.40
24	2.16	2.75	4.67	6.10	15.15	27.55	10.12	3.42	2.42	2.41	2.20	2.98
25	2.24	2.69	5.17	7.11	18.40	29.16	9.41	3.62	2.59	2.39	2.12	2.78
26	2.57	2.69	8.03	8.72	21.39	24.20	7.70	3.43	3.18	2.45	2.32	2.60
27	2.91	2.83	11.64	8.09	21.73	14.15	6.64	3.26	3.09	3.23	2.40	2.48
28	2.96	4.00	10.96	7.19	18.34	10.90	5.97	3.27	2.67	3.62	2.26	2.98
29	2.80	5.02	8.02	6.71	---	13.40	5.53	3.42	2.53	4.37	2.10	3.28
30	2.57	5.41	6.48	6.38	---	21.49	5.22	3.49	2.42	5.47	2.04	3.10
31	2.62	---	5.67	6.10	---	29.97	---	3.45	---	5.30	2.01	---
MEAN	2.43	3.03	5.50	9.19	7.29	18.46	16.65	3.81	2.64	2.64	2.53	3.59
MAX	3.04	5.41	11.64	22.02	21.73	29.97	38.31	4.97	3.30	5.47	4.29	6.90
MIN	2.16	2.32	3.10	4.83	3.95	9.44	5.22	3.18	2.33	2.00	2.01	1.78

02425000 CAHABA RIVER NEAR MARION JUNCTION, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1976 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965, 1972-76.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
NOV											
22...	907	155	7.5	9.5	11.6	66	11	17	5.7	4.4	.2
DEC											
20...	1440	128	7.3	10.0	11.6	52	7	13	4.6	3.5	.2
FEB											
02...	2140	129	7.1	4.0	14.1	46	9	12	3.7	3.6	.2
MAR											
14...	16000	76	7.2	14.0	10.3	26	2	7.1	2.0	2.8	.2
APR											
18...	2560	132	7.2	24.5	8.4	59	10	16	4.7	5.3	.3
MAY											
31...	1080	--	7.4	26.0	--	81	12	21	6.9	4.2	.2
JUL											
26...	736	223	7.3	28.0	8.4	81	0	20	7.5	5.1	.2
AUG											
29...	556	--	8.0	28.0	7.2	72	12	17	7.0	3.2	.2

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)
NOV											
22...	1.8	68	0	15	4.4	.1	6.5	90	220	.47	2.1
DEC											
20...	1.5	55	0	11	.6	.0	8.4	71	276	.27	1.2
FEB											
02...	1.0	46	0	13	3.2	.0	6.9	68	393	.38	1.7
MAR											
14...	1.1	29	0	7.8	1.8	.0	5.0	42	1810	.10	.43
APR											
18...	1.1	60	0	12	2.4	.0	8.2	81	560	.25	1.1
MAY											
31...	1.4	85	0	14	3.8	.1	4.2	99	289	.29	1.3
JUL											
26...	1.6	100	0	12	4.8	.0	6.9	107	213	.02	.09
AUG											
29...	1.6	74	0	7.6	3.4	.2	7.2	85	128	.23	1.0

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
NOV										
22...	1	<1	ND	<1	180	1	60	<.2	50	10
DEC										
20...	ND	<1	1	1	210	<1	40	<.2	60	10
FEB										
02...	<1	<1	ND	<1	110	<1	78	<.2	30	10
MAR										
14...	<1	<1	<1	1	230	1	49	<.2	20	<5
APR										
18...	<1	1	ND	1	180	ND	78	<.2	70	20
MAY										
31...	1	1	ND	<1	20	<1	2	.3	70	10
JUL										
26...	<1	<1	ND	1	100	<1	6	ND	80	10
AUG										
29...	2	<1	ND	1	80	1	25	ND	100	<5

02425200 BIG SWAMP CREEK NEAR ORRVILLE, AL

LOCATION.--Lat 32°13'17", long 87°09'48", in NW¼ sec. 3, T. 14 N., R. 9 E., Dallas County, Hydrologic Unit 03150203, on left bank, 20 ft (6.1 m) upstream from county road, 3 mi (4.8 km) upstream from mouth, and 9.8 mi (15.8 km) southeast of Orrville.

DRAINAGE AREA.--37.8 mi^2 (97.9 km^2).

PERIOD OF RECORD.--March 1972 to current year.

GAGE.--Water-stage recorder. Datum of gage is 87.74 ft (26.74 m) above mean sea level.

REMARKS.--Records fair. Records of specific conductance and water temperature for the water year 1977 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--5 years (water years 1973-77), 55.2 ft^3/s (1.563 m^3/s), 19.83 in/yr (504 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,400 ft^3/s (96.2 m^3/s) Mar. 31, 1976, gage height, 14.07 ft (4.289 m), minimum daily, 1.0 ft^3/s (0.028 m^3/s) July 7, 8, 9, Aug. 31, and Sept. 2, 1977.

EXTREMES FOR CURRENT PERIOD.--Peak discharges above base of 404 ft^3/s (11.4 m^3/s) and annual maximums (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
1973					
Jan. 8	0315	471	13.3	5.37	1.637
Mar. 11	1430	406	11.5	5.01	1.527
Mar. 16	1700	Unknown		8.48	2.585
Mar. 25	0300	634	18.0	6.28	1.914
Mar. 31	0645	1010	28.6	8.21	2.502
Apr. 7	1045	661	18.7	6.43	1.960
*Apr. 26	2045	1450	41.1	9.82	2.993
June 8	1400	570	16.1	5.92	1.804
1974					
Apr. 2	0730	424	12.0	5.11	1.558
*Sept. 26	1600	938	26.6	7.84	2.390
Dec. 24	0600	842	23.8	7.36	2.243
Jan. 8	1400	766	21.7	6.98	2.128
1975					
*Feb. 17	0200	1290	36.5	9.31	2.838
Mar. 13	2200	580	16.4	5.98	1.823
1975					
Mar. 16	0600	510	14.4	5.59	1.704
Mar. 24	1200	440	12.5	5.20	1.585
Apr. 14	1600	651	18.4	6.37	1.942
July 31	2200	706	20.0	6.68	2.036
Dec. 31	2300	501	14.2	5.54	1.689
1976					
Jan. 27	0300	616	17.4	6.18	1.884
Mar. 20	0500	Unknown		10.23	3.118
*Mar. 31	0800	3320	94.0	14.03	4.276
May 14	1900	634	18.0	6.28	1.914
1977					
Jan. 9	1900	678	19.2	6.52	1.987
Jan. 14	0900	436	12.3	5.18	1.589
Feb. 24	0200	882	25.0	7.56	2.304
Mar. 12	1500	708	20.0	6.69	2.039
*Apr. 3	1300	Unknown		8.37	2.551

Minimum daily discharges:

Date	ft^3/s	m^3/s	Date	ft^3/s	m^3/s	Date	ft^3/s	m^3/s
1972			1975			1977		
Oct. 26	1.4	0.040	Sept. 5	2.8	0.079	July 7-9, Aug. 31, and Sept. 2	1.4	0.040
1973			1976					
Oct. 19-28, 30	2.0	0.057	July 19, 20, 23, 24	1.3	0.037			

02425200 BIG SWAMP CREEK NEAR ORRVILLE, AL--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	3.5	17	18	37	164	60	9.0	2.1	1.2	3.3	1.1
2	2.5	3.3	14	16	33	111	50	7.6	2.0	1.1	3.3	1.0
3	2.5	2.8	9.4	76	41	70	42	8.6	2.0	1.2	3.7	1.0
4	2.5	2.6	7.9	102	60	252	38	9.4	1.7	1.2	6.2	1.1
5	2.3	2.6	6.5	64	52	278	33	8.6	1.7	1.1	3.7	1.7
6	3.5	2.5	5.9	60	41	336	31	7.9	1.7	1.1	2.1	2.0
7	3.5	2.5	30	99	35	313	28	6.8	1.8	1.0	1.8	2.1
8	3.0	2.3	31	77	31	228	25	7.2	1.7	1.0	1.4	1.8
9	3.0	2.3	16	262	29	138	34	44	1.7	1.0	1.4	8.6
10	2.8	2.6	12	411	26	93	27	18	1.6	1.1	1.4	5.6
11	2.6	5.0	41	298	25	74	23	9.8	1.6	1.3	1.3	2.8
12	2.3	9.8	113	209	27	352	18	7.6	1.6	1.4	1.3	1.8
13	2.3	4.2	107	134	29	519	19	5.9	1.6	1.3	1.3	1.6
14	2.1	16	57	294	29	380	16	5.0	1.7	1.3	1.3	1.6
15	2.8	25	39	279	25	244	14	4.7	1.6	1.3	1.3	1.6
16	2.8	11	32	231	21	164	13	4.4	1.4	1.4	1.4	3.7
17	2.6	6.2	23	143	20	103	12	4.2	2.1	1.4	1.4	3.9
18	2.6	4.4	19	99	20	76	11	3.7	5.6	1.7	2.1	2.3
19	2.3	3.9	17	63	21	65	11	3.3	12	1.8	2.0	2.8
20	3.3	6.5	20	55	20	61	11	3.3	4.4	1.8	1.8	2.6
21	3.3	7.9	22	55	18	60	10	3.3	2.3	1.8	1.6	2.1
22	2.6	5.3	17	50	17	68	44	11	1.8	1.4	1.4	1.7
23	4.7	3.9	18	43	66	49	89	4.7	3.0	1.8	1.4	1.6
24	3.3	3.7	16	58	625	39	37	3.3	2.6	1.3	1.4	1.7
25	2.8	3.3	65	64	474	35	22	3.0	2.8	1.3	1.4	1.7
26	3.3	5.6	128	50	314	32	16	3.0	1.8	1.3	1.2	2.0
27	2.6	15	72	46	300	29	13	2.8	1.7	1.3	1.2	2.0
28	3.3	77	45	55	234	54	11	3.3	1.6	2.6	1.2	2.0
29	2.3	74	33	41	---	100	9.8	2.8	1.6	3.7	1.2	2.0
30	4.7	29	25	33	---	82	11	2.5	1.4	2.3	1.1	2.5
31	4.7	---	22	34	---	72	---	2.3	---	3.7	1.0	---
TOTAL	91.7	343.7	1080.7	3519	2670	4641	778.8	221.0	72.2	48.2	57.6	70.0
MEAN	2.96	11.5	34.9	114	95.4	150	26.0	7.13	2.41	1.55	1.86	2.33
MAX	4.7	77	128	411	625	519	89	44	12	3.7	6.2	8.6
MIN	2.1	2.3	5.9	16	17	29	9.8	2.3	1.4	1.0	1.0	1.0
CFSM	.08	.30	.92	3.02	2.52	3.97	.69	.19	.06	.04	.05	.06
IN.	.09	.34	1.06	3.46	2.63	4.57	.77	.22	.07	.05	.06	.07

CAL YR 1976 TOTAL 22659.7 MEAN 61.9 MAX 2640 MIN 1.3 CFSM 1.64 IN 22.30
WTR YR 1977 TOTAL 13593.9 MEAN 37.2 MAX 625 MIN 1.0 CFSM .98 IN 13.38

02425200 BIG SWAMP CREEK NEAR ORRVILLE, AL--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	249	14	40	417	65	23	1000	16	27	3.3	3.0	3.9
2	175	12	33	295	58	27	500	14	37	2.8	2.6	10
3	63	9.8	24	294	44	25	250	12	29	2.6	2.6	5.9
4	49	25	21	308	30	28	150	9.0	23	2.6	2.5	20
5	110	20	19	258	28	29	100	8.2	23	7.2	2.1	17
6	185	14	21	196	45	40	70	8.2	21	7.6	2.1	23
7	158	11	130	167	54	24	50	63	16	4.7	2.1	19
8	158	10	80	158	35	22	49	97	13	3.3	3.0	13
9	183	10	50	117	30	110	38	68	12	2.6	2.5	8.6
10	127	14	38	103	26	75	33	41	11	2.1	2.3	5.9
11	82	15	32	97	26	49	29	36	11	2.0	2.1	4.2
12	57	111	30	100	22	44	26	30	9.4	1.7	2.0	3.9
13	43	118	27	103	20	209	23	37	7.9	1.6	1.8	3.5
14	36	41	24	145	19	332	23	423	6.8	1.6	1.8	3.5
15	29	45	23	117	18	564	22	498	5.0	1.4	2.0	3.0
16	47	39	26	100	17	350	20	335	5.6	1.6	2.6	3.0
17	111	31	35	89	17	200	19	199	5.6	1.4	4.7	3.0
18	95	27	75	72	20	150	15	103	5.0	1.4	3.0	3.0
19	56	21	56	65	18	110	13	53	7.6	1.3	2.5	2.8
20	42	22	48	65	16	380	13	37	15	1.3	2.3	2.8
21	27	31	39	65	16	200	57	29	11	1.4	2.3	3.3
22	24	24	32	64	84	110	110	25	7.6	1.4	2.3	3.5
23	26	17	27	58	48	84	36	271	4.7	1.3	2.1	3.0
24	19	15	25	55	34	58	21	210	4.7	1.3	2.5	2.8
25	17	14	64	54	31	45	45	118	4.4	1.4	7.9	2.6
26	14	13	163	371	29	178	31	76	3.5	1.4	4.2	2.6
27	14	31	122	230	27	806	19	53	3.7	1.6	4.7	2.6
28	14	24	113	233	28	678	16	54	3.9	1.7	7.9	3.5
29	14	22	85	148	24	415	14	45	3.7	4.7	5.3	3.3
30	16	25	130	107	---	954	12	33	3.5	5.3	6.2	3.3
31	12	---	476	63	---	2640	---	25	---	5.3	4.2	---
TOTAL	2252	825.8	2108	4714	929	8959	2804	3026.4	341.6	80.9	99.2	189.5
MEAN	72.6	27.5	68.0	152	32.0	289	93.5	97.6	11.4	2.61	3.20	6.32
MAX	249	118	476	417	84	2640	1000	498	37	7.6	7.9	23
MIN	12	9.8	19	54	16	22	12	8.2	3.5	1.3	1.8	2.6
CFSM	1.92	.73	1.80	4.02	.85	7.65	2.47	2.58	.30	.07	.09	.17
IN.	2.22	.81	2.07	4.64	.91	8.82	2.76	2.98	.34	.08	.10	.19

CAL YR 1975 TOTAL 27488.1 MEAN 75.3 MAX 1040 MIN 2.8 CFSM 1.99 IN 27.05
WTR YR 1976 TOTAL 26329.4 MEAN 71.9 MAX 2640 MIN 1.3 CFSM 1.90 IN 25.91

02425200 BIG SWAMP CREEK NEAR ORRVILLE, AL--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	7.2	23	57	44	65	53	66	17	16	474	3.9
2	17	7.3	25	48	50	54	150	37	11	9.0	271	3.9
3	13	7.5	18	48	48	43	345	31	8.2	8.6	188	3.5
4	11	7.5	13	88	79	39	200	41	6.8	11	109	3.3
5	10	13	12	79	182	37	140	32	6.5	8.6	66	2.8
6	9.6	10	13	61	159	34	120	32	7.6	6.5	57	13
7	9.1	8.6	36	55	122	37	74	80	9.4	5.6	41	10
8	8.6	8.2	39	471	81	53	57	150	7.9	5.0	27	8.2
9	7.9	8.2	26	485	62	41	54	60	7.6	5.0	23	5.9
10	7.7	7.9	17	433	53	65	53	50	23	30	167	5.9
11	7.1	14	16	413	46	185	55	37	43	63	126	9.4
12	7.4	19	17	305	44	90	43	28	88	41	82	5.9
13	7.1	13	17	252	41	174	34	23	42	17	57	5.6
14	7.1	11	15	177	33	340	433	19	23	12	37	5.0
15	16	9.8	29	129	30	228	573	25	96	9.4	26	4.4
16	28	9.4	62	97	372	390	230	26	62	7.9	19	4.4
17	19	9.6	26	77	1040	318	140	19	29	7.2	14	5.9
18	14	11	16	55	800	388	100	16	19	6.2	12	9.0
19	11	11	27	53	500	240	80	13	12	5.9	10	6.8
20	8.1	21	54	56	210	140	56	11	9.0	5.6	8.6	6.5
21	7.9	19	37	64	120	98	42	9.4	7.6	13	8.2	5.6
22	7.9	14	27	61	90	78	35	8.6	7.2	19	6.5	16
23	7.9	10	64	65	250	70	30	7.9	7.9	12	5.9	140
24	6.5	9.8	690	95	273	217	27	7.2	5.9	13	6.8	70
25	6.8	10	548	206	204	218	43	6.5	5.0	12	6.8	26
26	6.8	10	399	190	120	143	68	5.9	4.7	25	9.8	17
27	6.8	10	270	156	86	109	44	5.6	4.7	37	6.2	13
28	6.8	8.6	182	113	75	75	29	5.6	6.5	51	5.3	10
29	6.8	8.2	129	79	---	58	29	12	39	35	4.7	9.0
30	7.0	29	93	58	---	92	80	22	30	52	4.4	8.6
31	7.3	---	72	49	---	75	---	27	---	471	3.9	---
TOTAL	319.2	342.8	3012	4575	5214	4194	3417	913.7	646.5	1020.5	1883.1	438.5
MEAN	10.3	11.4	97.2	148	186	135	114	29.5	21.6	32.9	60.7	14.6
MAX	28	29	690	485	1040	390	573	150	96	471	474	140
MIN	6.5	7.2	12	48	30	34	27	5.6	4.7	5.0	3.9	2.8
CFSM	.27	.30	2.57	3.92	4.92	3.57	3.02	.78	.57	.87	1.61	.39
IN.	.31	.34	2.96	4.50	5.13	4.13	3.36	.90	.64	1.00	1.85	.43

CAL YR 1974 TOTAL 14763.7 MEAN 40.4 MAX 690 MIN 2.8 CFSM 1.07 IN 14.53
WTR YR 1975 TOTAL 25976.3 MEAN 71.2 MAX 1040 MIN 2.8 CFSM 1.88 IN 25.56

02425200 BIG SWAMP CREEK NEAR ORRVILLE, AL--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	3.0	3.9	70	90	26	65	8.6	9.8	5.0	3.7	5.6
2	2.5	2.8	3.7	50	64	25	284	8.0	38	5.0	3.7	6.5
3	2.3	2.8	3.3	69	49	23	255	7.9	24	13	3.9	6.2
4	2.3	2.8	9.0	125	37	22	244	7.5	14	17	3.7	5.3
5	2.3	4.7	7.6	95	29	21	190	7.1	29	6.8	3.7	4.7
6	2.3	3.3	4.7	95	32	19	122	6.5	161	6.2	3.9	4.7
7	2.3	2.7	3.9	89	111	18	84	5.9	106	5.3	22	9.4
8	2.3	3.2	3.5	76	100	17	63	5.6	65	4.7	60	86
9	2.2	6.3	3.5	68	57	16	47	5.3	46	4.4	42	60
10	2.1	3.6	3.5	54	45	16	36	5.2	56	4.2	16	25
11	2.1	3.2	3.5	52	37	14	29	6.9	77	3.9	8.1	13
12	2.1	3.0	3.5	56	33	16	28	12	33	3.7	5.9	9.0
13	2.1	3.0	3.5	41	29	15	198	8.0	22	3.7	5.7	7.6
14	2.1	3.0	3.5	37	27	14	174	5.9	20	3.7	7.9	6.2
15	2.0	3.0	5.3	41	63	13	163	16	43	3.7	5.9	5.7
16	2.3	4.1	7.6	38	118	13	112	66	244	4.7	5.3	5.5
17	2.5	3.7	5.3	32	89	12	69	21	72	15	4.7	4.8
18	2.3	3.5	4.7	27	69	11	46	10	41	92	4.2	4.5
19	2.0	3.5	4.4	24	79	37	35	9.4	33	25	4.2	4.5
20	2.0	3.8	23	40	68	138	27	9.3	24	26	3.9	4.4
21	2.0	12	14	64	68	170	22	6.8	18	67	3.7	5.1
22	2.0	6.7	8.6	52	106	129	23	30	14	22	3.5	4.7
23	2.0	4.4	6.8	58	80	90	35	96	11	9.6	3.3	4.2
24	2.0	3.8	6.2	65	70	62	25	43	9.8	7.6	3.0	4.2
25	2.0	3.7	5.9	65	53	43	17	20	8.2	6.2	2.8	5.0
26	2.0	3.5	135	57	39	36	14	17	7.2	5.3	2.8	263
27	2.0	5.3	90	51	33	53	12	28	6.2	5.3	2.8	207
28	2.0	16	32	58	29	62	11	21	5.9	8.6	2.8	81
29	2.1	6.2	49	118	---	167	9.8	16	5.6	6.5	4.4	37
30	2.0	4.2	51	140	---	149	9.0	13	5.3	5.0	5.2	30
31	2.5	---	50	122	---	99	---	11	---	4.2	6.2	---
TOTAL	68.9	134.8	559.4	2029	1704	1546	2448.8	533.9	1249.0	400.3	258.9	919.8
MEAN	2.22	4.49	18.0	65.5	60.9	49.9	81.6	17.2	41.6	12.9	8.35	30.7
MAX	4.2	16	135	140	118	170	284	96	244	92	60	263
MIN	2.0	2.7	3.3	24	27	11	9.0	5.2	5.3	3.7	2.8	4.2
CFSM	.06	.12	.48	1.73	1.61	1.32	2.16	.46	1.10	.34	.22	.81
IN.	.07	.13	.55	2.00	1.68	1.52	2.41	.53	1.23	.39	.25	.91

CAL YR 1973 TOTAL 22523.9 MEAN 61.7 MAX 1130 MIN 2.0 CFSM 1.63 IN 22.17
WTR YR 1974 TOTAL 11852.8 MEAN 32.5 MAX 284 MIN 2.0 CFSM .86 IN 11.66

02425200 BIG SWAMP CREEK NEAR ORRVILLE, AL--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	2.3	6.2	109	97	19	400	90	55	9.8	9.0	2.6
2	2.5	2.5	5.0	114	140	20	200	57	113	7.9	6.5	2.6
3	2.3	3.5	4.4	123	92	24	140	45	60	7.2	6.5	3.0
4	2.1	3.3	4.2	103	71	23	110	37	84	6.2	5.6	2.8
5	2.0	3.0	4.7	77	56	22	96	29	150	5.9	5.3	2.6
6	2.0	2.6	33	68	46	21	89	26	77	5.9	5.3	2.6
7	1.8	5.0	16	86	38	43	338	36	150	13	4.4	3.0
8	1.8	5.3	9.8	380	76	55	354	111	519	9.4	4.2	2.8
9	1.8	3.3	8.2	345	170	39	268	79	342	13	8.6	2.8
10	1.8	2.6	7.2	279	154	29	172	41	172	28	6.2	2.8
11	1.8	2.6	5.9	172	151	183	106	32	90	65	4.4	2.8
12	1.8	2.6	5.6	107	110	265	71	33	99	31	9.4	2.6
13	1.8	16	14	71	72	233	54	32	82	27	5.6	2.8
14	2.0	15	14	51	185	170	42	24	77	76	5.0	3.0
15	2.0	5.9	68	41	167	106	35	19	99	37	4.4	3.0
16	2.0	3.9	41	34	140	370	31	16	135	23	4.2	2.8
17	2.0	3.1	24	28	107	636	34	15	95	17	4.4	2.6
18	2.0	2.8	17	25	74	469	54	14	66	14	4.7	2.5
19	2.1	3.2	14	29	54	271	104	12	47	14	4.2	2.5
20	2.1	4.8	21	30	44	218	64	13	40	12	3.7	2.3
21	2.1	3.9	150	66	33	188	54	14	35	11	3.0	2.3
22	2.1	3.2	113	146	27	123	41	12	24	9.0	2.8	2.3
23	12	2.9	79	117	26	88	31	10	19	11	2.8	2.3
24	4.7	2.7	77	113	24	74	28	34	14	7.9	2.8	2.5
25	2.5	11	55	82	23	445	458	32	12	6.8	2.8	2.5
26	2.0	16	37	90	22	337	1130	33	20	6.5	2.8	2.3
27	9.8	7.0	28	88	21	265	560	34	13	6.5	2.6	2.5
28	4.4	4.2	22	68	20	161	310	182	26	6.2	2.6	2.5
29	2.6	4.4	19	57	---	117	180	84	19	5.6	2.8	2.5
30	2.3	8.2	19	47	---	161	120	43	12	6.5	3.0	3.7
31	2.3	---	148	39	---	736	---	33	---	11	3.0	---
TOTAL	88.0	156.8	1070.2	3185	2240	5911	5674	1272	2746	510.3	142.6	79.9
MEAN	2.84	5.23	34.5	103	80.0	191	189	41.0	91.5	16.5	4.60	2.66
MAX	12	16	150	380	185	736	1130	182	519	76	9.4	3.7
MIN	1.8	2.3	4.2	25	20	19	28	10	12	5.6	2.6	2.3
CFSM	.08	.14	.91	2.73	2.12	5.05	5.00	1.09	2.42	.44	.12	.07
IN.	.09	.15	1.05	3.13	2.20	5.82	5.58	1.25	2.70	.50	.14	.08

WTR YR 1973 TOTAL 23075.8 MEAN 63.2 MAX 1130 MIN 1.8 CFSM 1.67 IN 22.71

02425200 BIG SWAMP CREEK NEAR ORRVILLE, AL--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						---	28	8.6	8.2	7.8	2.5	1.4
2						---	25	7.6	6.5	6.0	2.5	1.6
3						---	23	8.2	5.6	5.4	2.5	1.4
4						---	29	7.9	5.0	20	2.3	1.6
5						---	29	6.8	4.7	35	2.1	1.7
6						---	25	5.7	4.4	20	2.0	2.1
7						---	23	5.7	4.2	10	2.0	2.0
8						---	22	12	3.9	6.5	1.8	1.8
9						---	19	9.8	3.9	5.0	1.8	1.8
10						---	17	7.6	6.2	4.4	2.1	1.7
11						---	16	6.5	8.2	3.9	2.3	1.7
12						---	16	14	5.6	3.5	2.3	1.4
13						---	15	158	5.0	3.3	2.3	1.4
14						---	13	138	4.7	3.7	2.0	1.4
15						---	12	69	4.4	3.7	1.8	1.4
16						---	22	52	8.6	3.3	1.8	1.6
17						---	23	36	5.6	3.3	1.8	1.6
18						---	15	24	4.4	3.0	1.8	2.1
19						---	12	17	7.2	2.6	1.8	2.0
20						---	11	12	13	2.5	1.8	1.8
21						---	15	9.4	7.6	2.5	1.6	1.8
22						45	56	7.9	5.0	2.5	2.0	2.5
23						41	37	6.8	4.4	2.3	2.0	2.0
24						37	21	7.9	4.2	2.1	1.8	2.0
25						39	13	16	21	2.6	1.8	2.1
26						40	9.0	7.6	33	2.8	1.8	2.8
27						35	7.9	6.2	8.0	2.3	1.7	2.8
28						50	7.6	5.3	4.0	2.1	1.6	3.0
29						54	7.9	5.3	19	2.8	1.6	2.5
30						40	9.4	9.0	12	3.0	1.7	9.0
31						33	---	13	---	2.8	1.6	---
TOTAL						---	578.8	700.8	237.5	180.7	60.5	64.0
MEAN						---	19.3	22.6	7.92	5.83	1.95	2.13
MAX						---	56	158	33	35	2.5	9.0
MIN						---	7.6	5.3	3.9	2.1	1.6	1.4
CFSM						---	.51	.60	.21	.15	.05	.06
IN.						---	.57	.69	.23	.18	.06	.06

02425500 CEDAR CREEK AT MINTER, AL

LOCATION.--Lat 32°04'45", long 86°59'02", in SE¼ sec. 20, T. 13 N., R. 11 E., Dallas County, Hydrologic Unit 03150203, near right bank on downstream side of bridge on county road, 0.2 mi (0.3 km) downstream from Snake Creek, 0.5 mi (0.8 km) east of Minter, and 4 mi (6 km) upstream from Dry Cedar Creek.

DRAINAGE AREA.--217 mi^2 (562 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1952 to September 1970. Flood hydrograph and low flow, water years 1971-73. Annual maximum, water year 1974. October 1974 to current year.

REVISED RECORDS.--WSP 1384: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 123.50 ft (37.643 m) above mean sea level. Prior to July 27, 1972, an old channel 500 ft (152 m) left at same datum.

REMARKS.--Water-discharge records fair.

AVERAGE DISCHARGE.--21 years (water years 1953-70, 1975-77), 246 ft^3/s (6.967 m^3/s), 15.39 in/yr (391 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 99,800 ft^3/s (2,830 m^3/s) Feb. 18, 1975, gage height, 26.53 ft (8.086 m), from floodmarks, from rating curve extended above 46,000 ft^3/s (1,303 m^3/s); minimum daily, 0.1 ft^3/s (0.003 m^3/s) Aug. 12, Sept. 15, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,000 ft^3/s (113 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Nov. 29	0200	4730	134	14.41	4.392	Mar. 13	1200	*6280	178	*17.82	5.432
Jan. 14	2000	4720	134	14.38	4.382	Mar. 29	0500	4650	132	14.19	4.325

Minimum discharge, 11 ft^3/s (0.311 m^3/s) July 8, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	49	213	167	200	400	2490	68	46	25	101	15
2	26	36	134	154	183	350	1210	67	40	21	65	15
3	23	31	99	710	210	290	590	67	37	17	324	14
4	23	28	79	705	388	3000	454	65	34	16	785	14
5	23	27	67	361	383	1500	543	60	32	16	575	14
6	32	26	62	401	243	800	365	59	29	14	110	17
7	42	26	1010	1410	179	660	270	56	28	13	67	21
8	44	25	740	566	167	500	232	54	28	12	44	30
9	35	25	203	1250	160	410	206	57	28	26	34	23
10	31	25	120	2410	148	370	176	54	26	50	29	19
11	28	26	740	615	140	655	157	50	25	34	28	16
12	26	35	665	392	137	3390	145	48	24	24	25	15
13	25	33	905	383	137	5770	134	45	23	20	23	15
14	24	43	423	3540	128	1460	125	44	22	22	21	15
15	24	92	235	2190	118	620	118	43	22	22	37	21
16	24	84	183	580	108	436	110	42	22	29	53	66
17	27	54	128	347	99	356	103	39	22	35	37	323
18	26	43	99	274	100	312	97	38	22	27	26	751
19	26	38	82	220	100	274	95	36	23	24	625	133
20	24	48	113	210	98	534	90	36	23	27	151	79
21	24	60	203	230	94	539	90	38	20	25	64	51
22	23	49	128	210	90	670	213	43	19	26	46	37
23	22	40	95	180	800	419	396	43	20	21	39	30
24	23	37	79	210	3900	291	206	45	30	19	35	26
25	25	36	660	310	1200	251	128	50	32	18	30	24
26	38	42	2780	220	450	220	103	42	45	17	27	23
27	42	86	700	210	1800	199	90	40	29	27	24	78
28	33	2590	361	190	600	1530	82	312	22	48	23	82
29	29	3370	258	170	---	3720	79	137	19	82	20	42
30	32	580	203	150	---	1060	79	84	19	189	18	31
31	51	---	183	170	---	1040	---	59	---	82	17	---
TOTAL	903	7684	11950	19135	12360	32026	9176	1921	811	1028	3503	2040
MEAN	29.1	256	385	617	441	1033	306	62.0	27.0	33.2	113	68.0
MAX	51	3370	2780	3540	3900	5770	2490	312	46	189	785	751
MIN	22	25	62	150	90	199	79	36	19	12	17	14
CFSM	.13	1.18	1.77	2.84	2.03	4.76	1.41	.29	.12	.15	.52	.31
IN.	.15	1.32	2.05	3.28	2.12	5.49	1.57	.33	.14	.18	.60	.35

CAL YR 1976 TOTAL 128795 MEAN 352 MAX 7210 MIN 21 CFSM 1.62 IN 22.08
WTR YR 1977 TOTAL 102537 MEAN 281 MAX 5770 MIN 12 CFSM 1.30 IN 17.58

02425500 CEDAR CREEK AT MINTER, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1976 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965-68, 1972-73, 1975-76.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
NOV											
19...	40	185	7.2	10.0	11.0	83	8	30	1.8	3.0	.1
DEC											
13...	918	220	7.4	12.0	11.3	110	28	40	2.0	4.0	.2
FEB											
01...	193	350	8.3	3.0	13.8	150	11	57	2.3	4.1	.1
MAR											
11...	678	320	8.0	13.0	11.8	140	1	51	1.9	4.2	.2
APR											
26...	110	262	7.8	16.5	9.0	130	7	49	1.7	3.1	.1
JUN											
08...	26	210	7.4	26.0	9.2	97	0	36	1.6	3.3	.1
JUL											
20...	27	126	7.6	29.0	--	55	13	20	1.2	2.8	.2
SEP											
02...	15	216	8.1	31.0	--	99	9	36	2.1	2.8	.1

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)
NOV											
19...	1.4	92	0	8.6	4.4	.1	9.0	104	11.2	.09	.42
DEC											
13...	1.5	100	0	18	3.6	.0	7.5	126	312	.05	.20
FEB											
01...	.7	170	0	22	5.2	.4	7.5	184	95.9	.27	1.2
MAR											
11...	.8	170	0	18	4.2	.1	8.6	174	319	.06	.25
APR											
26...	.8	150	0	9.8	3.0	.0	8.2	150	44.5	.04	.17
JUN											
08...	1.1	130	0	4.8	3.4	.1	4.8	119	8.35	.03	.15
JUL											
20...	.9	70	0	.8	3.6	.2	8.2	72	5.25	.00	.01
SEP											
02...	.8	110	0	4.0	3.6	.0	7.6	115	4.66	.76	3.4

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
NOV										
19...	1	1	ND	<1	200	2	42	.2	110	50
DEC										
13...	1	<1	ND	<1	350	1	6	<.2	170	10
FEB										
01...	<1	<1	ND	1	100	2	34	ND	270	20
MAR										
11...	2	1	1	<1	210	1	12	<.2	230	50
APR										
26...	2	1	ND	<1	30	3	16	.2	200	20
JUN										
08...	1	<1	ND	1	40	<1	ND	<.2	170	10
JUL										
20...	<1	<1	ND	1	370	1	9	.4	120	20
SEP										
02...	2	<1	<1	<1	ND	ND	--	ND	190	ND

MOBILE RIVER MAIN STEM

02427506 ALABAMA RIVER AT MILLERS FERRY LOCK AND DAM, NEAR CAMDEN, AL

LOCATION.--Lat 32°06'00", long 84°23'52", in NW¼ sec. 17, T. 13 N., R. 17 E., Wilcox County, Hydrologic Unit 03150203, at downstream end of Millers Ferry lock and dam, 1.0 mi (1.6 km) downstream from State Highway 28, 1.3 mi (2.1 km) downstream from Prairie Creek, 6.6 mi (10.6 km) upstream from Dixon Creek, 12 mi (19 km) northwest of Camden, and at mile 142.25 (228.88 km).

DRAINAGE AREA.--20,700 mi^2 (53,600 km^2).

PERIOD OF RECORD.--November 1968 to current year (gage heights only). October 1971 to current year in reports of Geological Survey. November 1968 to September 1971 in files of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 19.00 ft (5.791 m) above mean sea level.

COOPERATION.--Records furnished by Corps of Engineers.

EXTREMES (AT 0700) FOR PERIOD OF RECORD.--Maximum gage height, 60.3 ft (18.38 m) Apr. 5, 1976; minimum, 10.5 ft (3.20 m) Sept. 2, 3, 4, 1969.

EXTREMES (AT 0700) FOR CURRENT YEAR.--Maximum gage height, 58.4 ft (17.80 m) Apr. 5; minimum, 13.9 ft (4.24 m) July 9.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 0700

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.60	14.70	27.30	25.40	18.60	38.50	51.60	23.60	16.30	14.80	17.30	14.90
2	14.60	16.30	27.60	23.70	22.50	35.00	55.50	22.30	15.70	14.60	15.30	15.00
3	14.70	16.10	25.00	23.50	21.10	32.40	57.20	19.80	15.50	14.50	15.00	15.00
4	14.90	19.10	24.80	25.60	18.60	30.30	58.10	19.70	15.60	14.60	15.20	15.10
5	14.80	15.00	22.80	23.80	17.90	37.80	58.40	15.90	15.30	15.00	15.10	15.30
6	14.80	15.30	17.70	25.00	18.20	38.60	58.30	19.10	15.20	14.80	17.40	15.20
7	14.90	15.30	14.80	25.60	19.80	41.40	57.70	20.60	15.30	15.40	15.40	15.40
8	14.70	17.10	18.20	26.90	17.50	42.80	57.10	22.00	15.20	14.20	15.30	15.30
9	14.60	14.80	22.60	26.50	20.70	42.80	56.60	23.40	15.20	13.90	15.20	15.20
10	15.40	15.20	22.80	35.40	22.40	41.00	56.50	19.80	15.20	14.10	15.20	15.30
11	14.50	15.20	18.40	40.30	15.70	38.30	55.80	19.60	15.10	14.10	15.10	15.30
12	14.70	15.20	24.40	42.10	15.50	34.40	54.50	22.90	14.80	14.60	15.10	16.90
13	14.80	17.20	28.10	42.00	15.10	42.70	51.80	22.70	14.60	14.80	15.00	15.10
14	14.80	15.50	29.20	40.30	18.60	48.00	48.30	22.90	14.40	14.90	14.90	15.10
15	14.90	17.60	28.00	42.00	15.00	50.30	45.30	15.40	14.60	15.20	14.90	15.10
16	15.00	19.30	27.70	40.50	15.50	50.90	41.80	15.10	15.40	15.20	14.90	15.30
17	15.00	16.80	25.80	37.60	18.40	50.30	39.50	15.00	15.00	15.20	15.40	19.40
18	14.90	15.80	24.60	34.90	15.70	47.50	37.10	14.80	16.00	15.20	15.30	22.40
19	15.00	15.30	23.90	30.90	15.40	43.70	31.90	14.80	15.30	15.20	15.70	23.30
20	15.00	15.10	23.40	26.60	15.10	38.00	29.00	15.30	15.10	15.20	15.60	19.30
21	15.20	15.10	19.90	25.30	15.00	34.30	28.70	15.10	14.50	15.20	15.30	22.70
22	15.70	17.30	20.00	26.60	16.00	33.00	26.40	15.00	14.00	15.20	15.30	23.00
23	15.10	14.80	20.20	25.60	15.10	38.10	27.30	15.10	14.70	15.40	15.20	21.30
24	15.00	15.00	20.70	22.70	29.80	43.10	28.80	15.80	16.60	15.00	15.10	17.00
25	15.10	15.30	20.40	17.60	40.00	45.10	26.00	22.00	14.80	15.00	15.10	15.50
26	14.40	15.10	26.60	22.80	40.70	44.90	23.70	15.00	16.80	15.10	15.20	14.90
27	14.50	15.00	30.70	25.60	39.80	41.20	23.60	15.10	14.80	15.00	15.20	14.00
28	14.40	15.10	32.20	25.50	41.30	35.90	23.60	14.90	15.40	15.10	15.00	15.60
29	14.30	23.10	31.30	23.50	---	33.20	23.30	14.60	15.20	16.70	15.00	15.50
30	15.30	25.60	28.30	24.90	---	37.30	23.90	14.40	15.20	15.60	14.80	15.40
31	18.40	---	26.50	22.40	---	45.70	---	14.10	---	16.70	14.90	---
MEAN	14.97	16.44	24.32	29.07	21.25	40.53	41.91	17.93	15.23	15.02	15.30	16.79
MAX	18.40	25.60	32.20	42.10	41.30	50.90	58.40	23.60	16.80	16.70	17.40	23.30
MIN	14.30	14.70	14.80	17.60	15.00	30.30	23.30	14.10	14.00	13.90	14.80	14.00

02427700 TURKEY CREEK AT KIMBROUGH, AL

LOCATION.--Lat 32°01'15", long 87°33'30", in SE¼ sec. 10, T. 12 N., R. 5 E., Wilcox County, Hydrologic Unit 03150203, on right bank on upstream side of bridge on county road, 0.3 mi (0.5 km) upstream from Southern Railway bridge, 0.6 mi (1.0 km) downstream from State Highway 5, 1 mi (2 km) south of Kimbrough, and 2 mi (3 km) upstream from mouth.

DRAINAGE AREA.--114 mi^2 (295 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 58.78 ft (17.916 m) above mean sea level.

REMARKS.--Water-discharge record fair.

AVERAGE DISCHARGE.--19 years, 143 ft^3/s (4.050 m^3/s), 17.03 in/yr (433 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39,600 ft^3/s (1,120 m^3/s) Dec. 10, 1961, gage height, 25.02 ft (7.626 m); minimum, no flow Sept. 25, 1968.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft^3/s (56 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 24	1500	4380	124	15.35	4.679	Mar. 13	0400	*5620	159	*17.47	5.325
Mar. 4	1500	2310	65.4	9.03	2.752	Apr. 1	2400	2660	75.3	11.07	3.374

Minimum discharge, 2.6 ft^3/s (0.074 m^3/s) Sept. 2, 3, 4, 5, 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.6	26	75	70	99	208	2300	31	7.8	4.9	27	3.4
2	7.4	25	58	58	96	166	1000	30	7.4	4.6	23	3.0
3	7.0	26	48	150	146	142	450	34	7.4	4.3	13	2.6
4	6.6	29	42	250	218	1600	220	44	6.7	3.8	11	2.6
5	6.3	32	37	140	156	744	180	35	6.1	3.8	37	2.6
6	6.2	36	35	100	120	736	150	30	5.8	3.8	19	6.1
7	6.2	43	186	240	104	435	130	26	5.8	3.6	12	49
8	9.4	51	138	150	96	247	110	23	6.7	3.6	8.6	19
9	15	62	80	160	93	191	96	30	7.0	5.5	7.0	11
10	16	66	62	580	88	175	86	29	6.4	13	6.4	8.4
11	5.2	73	179	300	83	171	78	22	6.4	14	5.8	7.0
12	4.6	101	452	150	82	2060	70	19	6.7	9.8	4.6	5.8
13	4.3	76	374	120	85	3400	64	17	8.2	6.7	4.3	4.9
14	4.0	83	186	330	79	1580	58	15	9.4	6.7	4.0	4.6
15	3.8	164	140	760	72	900	54	14	8.6	6.7	3.8	6.4
16	3.8	64	127	300	67	560	49	13	9.8	4.9	3.8	13
17	4.6	36	97	190	64	350	44	12	9.4	5.2	6.1	19
18	5.2	24	80	130	64	250	41	13	8.6	5.2	30	13
19	5.5	20	73	110	64	173	39	12	9.0	7.4	56	9.3
20	5.8	26	85	100	61	121	36	12	9.0	8.3	73	24
21	6.4	33	97	120	57	114	36	12	11	7.0	24	16
22	6.4	27	75	92	56	112	150	11	9.8	6.7	14	10
23	6.4	21	68	90	650	97	285	10	16	5.5	9.0	7.8
24	7.4	18	62	110	3810	94	102	10	46	4.6	7.3	6.7
25	11	18	191	154	729	242	71	9.8	25	5.5	9.3	6.4
26	16	21	650	129	228	158	55	9.4	13	15	8.2	13
27	13	48	208	123	1070	75	47	9.8	8.2	14	6.1	50
28	10	502	146	121	357	166	40	12	6.4	29	4.9	21
29	11	291	118	102	---	200	36	11	5.8	122	4.3	12
30	20	116	99	91	---	343	34	9.4	5.2	175	3.8	9.3
31	36	---	84	96	---	778	---	8.6	---	34	3.8	---
TOTAL	278.1	2158	4352	5616	8894	16588	6111	574.0	298.6	544.1	450.1	366.9
MEAN	8.97	71.9	140	181	318	535	204	18.5	9.95	17.6	14.5	12.2
MAX	36	502	650	760	3810	3400	2300	44	46	175	73	50
MIN	3.8	18	35	58	56	75	34	8.6	5.2	3.6	3.8	2.6
CFSM	.08	.63	1.23	1.59	2.79	4.69	1.79	.16	.09	.15	.13	.11
IN.	.09	.70	1.42	1.83	2.90	5.41	1.99	.19	.10	.18	.15	.12

CAL YR 1976 TOTAL 69616.5 MEAN 190 MAX 7700 MIN 3.8 CFSM 1.67 IN 22.72
WTR YR 1977 TOTAL 46230.8 MEAN 127 MAX 3810 MIN 2.6 CFSM 1.11 IN 15.09

02427700 TURKEY CREEK AT KIMBROUGH, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1972 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965, 1966, 1967, 1969, and 1971.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
MAR											
29...	813	147	7.3	17.0	8.9	48	9	15	2.4	5.7	.4
SEP											
02...	5.0	143	7.0	26.0	6.4	41	6	11	3.2	8.4	.6

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)
MAR											
29...	1.2	48	0	16	5.4	.1	14	88	193	.93	4.1
SEP											
02...	1.2	43	0	5.0	7.8	.0	11	73	.99	.78	3.5

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
MAR										
29...	1	<1	ND	1	330	<1	36	.2	17	20
SEP										
02...	2	<1	<1	ND	840	ND	170	.7	180	20

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT			
06...	6.3	108	21.0
NOV			
15...	161	66	8.0
DEC			
15...	155	85	9.0
JAN			
25...	157	89	6.0

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
APR			
19...	39	100	19.5
JUN			
01...	7.8	116	27.5
JUL			
12...	7.9	146	27.5
AUG			
22...	14	79	26.5

MOBILE RIVER MAIN STEM

02428400 ALABAMA RIVER AT CLAIBORNE LOCK AND DAM, NEAR MONROEVILLE, AL

LOCATION.--Lat 31°36'40", long 87°33'10", in SE¼ sec. 34, T. 8 N., R. 5 E., Monroe County, Hydrologic Unit 03150204, just upstream from Claiborne lock and dam, 3.5 mi (5.6 km) upstream from Flat Creek, 3.8 mi (6.1 km) downstream from Silver Creek, 15 mi (24 km) northwest of Monroeville, and at mile 81.9 (131.8 km).

DRAINAGE AREA.--21,500 mi^2 (55,700 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to current year.

GAGE.--Water-stage recorder. Datum of gage is 19.00 ft (2.438 m) above mean sea level.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 213,000 ft^3/s (6,032 m^3/s) Apr. 6, 1976, maximum gage height, 53.14 ft (16.197 m) Apr. 6, 1976, minimum, 6,050 ft^3/s (171 m^3/s) July 22, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 161,000 ft^3/s (4,560 m^3/s) Apr. 7, 8, 1977, maximum gage height, 51.69 ft (15.755 m) Apr. 8, 1977, minimum daily, 6,500 ft^3/s (184 m^3/s) Aug. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9750	9890	46400	39400	23100	107000	124000	31600	20800	8340	17400	6860
2	9350	16500	46900	33500	27300	83800	136000	27700	19500	7570	12900	6550
3	9360	21400	41600	33500	26300	74700	149000	24000	17400	7370	14300	6660
4	9300	16300	39000	38400	24200	76300	148000	22400	16000	7380	16100	6570
5	8940	11000	34700	33600	18600	86300	151000	21700	13000	8490	17800	6670
6	9080	7630	22600	39000	18200	91100	158000	23600	13600	8040	18600	6720
7	8860	7170	16700	43400	24300	99600	161000	26700	18000	7800	16100	6790
8	7640	7060	23500	47600	22400	109000	161000	25800	15500	7820	14700	7140
9	7620	11700	28600	48800	24700	104000	159000	24800	9220	8240	10900	11500
10	7390	13400	29600	80500	26800	99900	157000	18700	8540	7960	11300	11300
11	6760	8830	27500	91900	21200	101000	156000	19400	7890	8360	11500	11500
12	6830	14000	39400	103000	18600	86600	152000	26600	7470	7030	10800	17800
13	6940	14500	52300	104000	17000	105000	148000	23700	7810	6510	9880	14600
14	6850	12100	56700	104000	13700	115000	137000	27600	8930	6220	9860	18100
15	6800	16500	51100	109000	15300	125000	126000	14400	10700	6710	10700	17600
16	6830	21400	48300	108000	19900	132000	115000	9690	9050	6700	9250	16900
17	6790	23200	39300	96100	22600	136000	105000	9210	12800	6800	7200	20200
18	6590	20200	34100	81200	20200	131000	91000	11600	14800	6980	7410	29300
19	6870	18000	32100	70500	17300	122000	75000	12300	11000	6810	9570	28400
20	10100	14100	31700	47100	11100	102000	56600	10400	10900	6510	9060	18600
21	19000	10200	25900	40700	12100	82500	54100	9660	12000	6280	6620	21800
22	19900	9840	26000	43300	12300	73700	46300	9350	12700	7170	6510	23300
23	10300	9710	25300	40000	14500	85100	48600	10200	18100	8310	6500	22900
24	8780	13000	26500	27600	64200	99100	51700	12800	20600	7350	9280	15900
25	7810	9410	26900	21500	93800	109000	40500	25700	14800	6900	13600	13900
26	7540	8520	49400	29800	99600	116000	32900	13500	14700	6810	13300	14500
27	6980	8620	62400	42000	105000	103000	32100	8970	11000	7680	9940	9190
28	7030	10600	66200	40900	105000	84600	32600	9140	13300	8780	8660	9350
29	7050	33200	61100	34100	---	67000	37900	9170	11300	13200	6770	11400
30	8250	40600	51200	34000	---	84800	33500	9140	8130	10200	6920	14000
31	12900	---	44600	28000	---	106000	---	12000	---	12800	6710	---
TOTAL	274190	438580	1207600	1734500	919300	3098100	3075800	541530	389540	243120	340140	426000
MEAN	8845	14620	38950	55950	32830	99940	102500	17470	12980	7843	10970	14200
MAX	19900	40600	66200	109000	105000	136000	161000	31600	20800	13200	18600	29300
MIN	6590	7060	16700	21500	11100	67000	32100	8970	7470	6220	6500	6550
CFSM	.41	.68	1.81	2.60	1.53	4.65	4.77	.81	.60	.37	.51	.66
IN.	.47	.76	2.09	3.00	1.59	5.36	5.32	.94	.67	.42	.59	.74

CAL YR 1976 TOTAL 15242650 MEAN 41650 MAX 213000 MIN 6590 CFSM 1.94 IN 26.37
WTR YR 1977 TOTAL 12688400 MEAN 34760 MAX 161000 MIN 6220 CFSM 1.62 IN 21.95

MOBILE RIVER MAIN STEM

02428401 ALABAMA RIVER AT CLAIBORNE LOCK AND DAM, NEAR MONROEVILLE, AL

LOCATION.--Lat 31°36'40", long 87°33'10", in SE¼ sec. 34, T. 8 N., R. 5 E., Monroe County, Hydrologic Unit 03150204, at downstream end of Claiborne lock and dam, 3.4 mi (5.5 km) upstream from Flat Creek, 3.7 mi (6.0 km) downstream from Silver Creek, 15 mi (24 km) northwest of Monroeville, and at mile 81.8 (131.6 km).

DRAINAGE AREA.--21,500 mi^2 (55,800 km^2).

PERIOD OF RECORD.--December 1969 to current year (gage heights only). October 1971 to current year in reports of Geological Survey. December 1969 to September 1971 in files of the Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 8.00 ft (2.438 m) below mean sea level.

COOPERATION.--Records furnished by Corps of Engineers.

EXTREMES (AT 0700) FOR PERIOD OF RECORD.--Maximum gage height, 61.2 ft (18.65 m) Apr. 6, 7, 1976; minimum, 16.7 ft (5.09 m) Sept. 4, 1977.

EXTREMES (AT 0700) FOR CURRENT YEAR.--Maximum gage height, 59.0 ft (17.98 m) Apr. 8; minimum, 16.7 ft (5.09 m) Sept. 4.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 0700

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.80	19.80	33.50	33.70	27.50	46.70	49.30	30.60	24.40	18.70	22.50	16.80
2	19.20	20.20	34.30	31.60	27.90	45.00	52.20	30.00	25.00	18.10	23.00	16.80
3	19.10	24.20	32.90	30.50	28.30	42.80	54.40	28.30	24.00	18.00	22.40	16.80
4	19.00	25.70	31.70	31.50	28.20	41.20	56.80	28.00	23.50	17.80	22.10	16.70
5	18.90	20.50	29.90	31.30	27.20	43.50	57.30	27.20	22.30	17.80	23.00	16.80
6	18.80	19.90	27.00	31.10	24.90	45.30	58.30	26.70	21.40	18.40	23.80	16.80
7	19.00	18.20	21.30	32.90	26.10	46.40	58.80	28.30	22.30	18.00	24.30	17.20
8	18.40	17.70	24.90	33.80	26.70	47.70	59.00	28.80	23.40	17.80	22.30	---
9	18.10	18.10	28.70	34.50	26.30	48.40	58.80	28.40	21.40	17.30	21.40	---
10	17.80	20.90	28.90	37.90	27.80	48.50	58.50	26.20	19.00	18.10	20.50	---
11	17.40	19.90	28.60	43.20	27.10	47.60	58.30	25.30	18.80	18.20	20.20	---
12	17.30	20.30	31.20	45.40	25.10	45.70	58.10	26.10	18.50	18.10	19.80	---
13	17.30	22.20	33.00	46.30	23.90	46.70	57.50	26.80	18.40	17.20	19.20	---
14	17.30	21.60	36.30	46.70	22.90	49.30	56.50	27.90	18.30	17.10	18.80	---
15	17.30	21.90	35.90	47.50	21.40	52.20	54.90	26.70	19.80	17.00	18.90	---
16	17.30	24.50	34.20	47.90	23.90	52.60	52.80	21.90	18.90	17.40	19.00	---
17	17.20	27.10	33.80	46.90	25.40	53.40	50.30	20.40	19.10	17.30	17.50	---
18	17.20	25.70	31.30	45.20	25.30	53.50	47.90	20.10	24.00	17.30	17.80	27.40
19	17.10	24.10	30.80	42.60	24.30	52.60	45.00	21.60	20.60	17.30	18.20	28.80
20	17.20	22.50	30.30	38.10	22.60	50.40	40.80	20.90	19.80	17.30	19.20	25.90
21	22.60	20.80	29.00	34.80	20.70	47.20	37.90	20.10	20.40	17.30	18.70	24.70
22	24.50	19.60	28.00	33.40	20.20	44.30	34.30	20.00	20.50	17.60	17.50	26.00
23	23.10	19.00	28.20	34.20	21.40	43.70	35.50	20.10	22.60	17.80	17.30	26.60
24	19.30	21.10	28.50	31.40	29.30	45.60	36.40	20.30	25.30	18.80	17.20	24.90
25	18.50	20.00	28.30	27.50	42.40	47.60	35.20	25.20	24.30	17.50	19.80	22.40
26	18.10	18.80	30.60	29.00	44.90	48.80	31.90	25.20	22.00	17.40	21.10	20.20
27	17.40	18.60	37.10	30.90	45.80	48.90	30.90	21.00	22.10	17.30	20.00	19.10
28	17.30	18.60	38.30	32.40	46.50	47.10	30.60	19.70	20.90	18.10	18.80	17.70
29	17.40	28.40	38.50	31.00	---	44.20	31.50	19.60	21.20	19.40	17.90	19.40
30	17.50	31.80	36.60	30.60	---	44.00	31.70	19.50	20.00	20.50	17.20	20.10
31	18.70	---	34.70	29.60	---	45.90	---	19.60	---	19.90	16.90	---
MEAN	18.55	21.72	31.49	36.24	28.00	47.32	47.38	24.21	21.41	17.93	19.88	---
MAX	24.50	31.80	38.50	47.90	46.50	53.50	59.00	30.60	25.30	20.50	24.30	---
MIN	17.10	17.70	21.30	27.50	20.20	41.20	30.60	19.50	18.30	17.00	16.90	---

02429500 ALABAMA RIVER AT CLAIBORNE, AL
(National stream-quality accounting network station)

LOCATION.--Lat 31°32'48", long 87°30'45", in sec. 25, T. 7 N., R. 5 E., Monroe County, Hydrologic Unit 03150204, near left bank on downstream side of bridge on U.S. Highway 84 at Claiborne, 0.5 mi (0.8 km) downstream from Limestone Creek, 12 mi (19 km) west of Monroeville, and at mile 76.1 (122.4 km).

DRAINAGE AREA.--22,000 mi^2 (57,000 km^2), approximately.

PERIOD OF RECORD.--March 1966 to September 1968, October 1969 to current year.

PERIOD OF DAILY RECORD.--
CHEMICAL ANALYSES: March 1966 to September 1968.
SPECIFIC CONDUCTANCE: March 1966 to September 1968, May 1974 to current year.
WATER TEMPERATURES: March 1966 to September 1968, May 1974 to current year.

INSTRUMENTATION.--Water-quality monitor since May 1974.

REMARKS.--Miscellaneous samples of chemical data published for water year 1965. No specific conductance or temperature data for some days due to recorder malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE (March 1966 to September 1968): Maximum daily, 208 micromhos July 6, 1968; minimum daily, 66 micromhos Mar. 10, 1966.
WATER TEMPERATURES: Maximum (water years 1966-68), 29.0°C July 14-16, 1966; minimum (water years 1967-68, 1975-77), 4.0°C Jan. 17-18, Feb. 24-25, Mar. 1, 1968.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Minimum, 5.0°C Jan. 20-21.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM .7UM-MF (COL./100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
OCT												
20...	9700	115	7.6	21.0	15	9.0	3	6	37	0	10	2.8
NOV												
18...	19600	125	7.4	13.0	15	--	62	32	44	0	12	3.3
DEC												
15...	49600	121	7.2	10.0	35	12.0	210	340	46	6	14	2.8
FEB												
02...	28300	106	6.7	5.5	15	--	5	2	40	6	12	2.5
MAR												
10...	98700	102	7.1	12.0	55	9.9	140	70	43	12	14	2.0
31...	112000	102	7.2	16.5	35	9.0	160	130	39	3	12	2.1
MAY												
12...	28100	88	7.2	23.0	30	9.0	8	23	32	0	9.2	2.1
JUN												
08...	14800	105	7.7	26.5	15	--	0	2	36	4	10	2.6
JUL												
20...	6360	107	7.8	29.0	7	8.0	77	56	35	2	10	2.5
AUG												
15...	10800	118	8.0	31.0	15	8.1	5	14	38	5	11	2.5
SEP												
29...	9450	137	7.9	27.0	8	8.2	15	46	47	8	13	3.5

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
OCT											
20...	6.7	.5	1.4	49	0	6.7	5.5	.3	6.6	--	65
NOV											
18...	7.7	.5	1.6	54	0	7.2	7.3	.2	7.5	81	76
DEC											
15...	5.8	.4	2.0	49	0	9.6	5.7	.1	7.0	79	74
FEB											
02...	5.3	.4	1.4	42	0	7.6	4.7	.1	6.6	--	61
MAR											
10...	4.6	.3	1.2	38	0	7.6	4.4	.1	5.5	71	58
31...	3.2	.2	1.2	43	0	6.4	3.5	.1	6.2	65	59
MAY											
12...	4.2	.3	1.1	41	0	5.4	3.6	.0	6.4	55	55
JUN											
08...	5.1	.4	1.5	39	0	6.3	4.9	.0	7.1	--	59
JUL											
20...	8.2	.6	1.5	41	0	6.7	7.0	.1	7.4	70	65
AUG											
15...	7.0	.5	1.4	40	0	7.7	7.4	.1	7.5	72	68
SEP											
29...	8.0	.5	1.9	48	0	9.6	8.9	.0	6.2	73	77

02429500 ALABAMA RIVER AT CLAIBORNE, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS)	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	TOTAL ORGANIC CARBON (C) (MG/L)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT											
20...	1700	.19	.14	.03	--	--	--	--	15	393	94
NOV											
18...	4290	.23	.22	.05	--	--	--	3.0	15	794	82
DEC											
15...	10600	.22	.37	.11	--	--	--	--	72	9640	76
FEB											
02...	4660	.23	.28	.08	--	--	--	--	19	1450	80
MAR											
10...	18900	.13	.55	.12	--	--	--	--	--	--	--
31...	19700	.21	.50	.11	--	--	--	--	170	51400	54
MAY											
12...	4170	.27	.35	.06	--	--	--	--	35	2660	63
JUN											
08...	2360	.23	.31	.05	3422	.023	.001	8.5	12	480	93
JUL											
20...	1200	.15	.28	.05	--	--	--	2.8	12	206	97
AUG											
15...	2100	.20	.47	.04	--	--	--	4.1	10	292	--
SEP											
29...	1860	.23	.24	.07	--	--	--	8.7	4	102	92

DATE	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)
NOV											
18...	1	1	0	5	0	5	10	10	0	0	0
JUN											
08...	--	--	1	1	0	1	10	10	0	1	0
JUL											
20...	--	--	0	0	0	0	10	10	0	0	0
AUG											
15...	--	--	0	--	--	0	--	--	0	--	--
SEP											
29...	1	1	0	0	0	0	<10	<10	0	0	0

DATE	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	SUS-PENDED MAN-GANESE (MN) (UG/L)
NOV											
18...	0	3	1	2	630	90	82	54	28	40	30
JUN											
08...	1	2	0	2	760	50	15	4	11	50	40
JUL											
20...	0	3	1	2	700	30	15	11	4	50	40
AUG											
15...	0	--	--	5	--	100	--	--	4	--	--
SEP											
29...	0	4	3	1	690	50	0	0	0	40	30

DATE	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
NOV										
18...	10	.1	.0	.1	0	0	0	20	20	0
JUN										
08...	10	--	--	.0	--	--	0	60	50	10
JUL										
20...	10	--	--	.0	--	--	0	10	10	0
AUG										
15...	10	.0	.0	.0	--	--	0	--	--	10
SEP										
29...	10	<.5	.0	<.5	0	0	0	10	10	0

02429500 ALABAMA RIVER AT CLAIBORNE, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE	OCT 20,76		NOV 18,76		FEB 2,77		MAY 12,77		JUN 8,77	
TIME	1120		0900		1020		1200		1200	
TOTAL CELLS/ML	77		280		5500		230		7000	
DIVERSITY: DIVISION	0.6		1.0		0.5		0.8		0.4	
.CLASS	0.6		1.0		0.5		0.8		0.4	
..ORDER	1.4		1.5		0.6		1.4		0.5	
...FAMILY	1.6		1.6		0.7		1.9		0.6	
....GENUS	2.0		2.1		1.5		2.4		1.2	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...MICRACTINIACEAE										
....GOLENKINIA	--	-	--	-	--	-	--	-	*	0
....MICRACTINIUM	--	-	--	-	50	1	43#	19	--	-
...OOCYSTACEAE										
....ANKISTRODESMUS	--	-	--	-	150	3	14	6	*	0
....CHODATELLA	--	-	--	-	--	-	--	-	*	0
....KIRCHNERIELLA	--	-	--	-	--	-	--	-	41	1
....OOCYSTIS	--	-	--	-	*	0	--	-	--	-
....SELENASTRUM	--	-	--	-	--	-	--	-	*	0
...SCENEDESMACEAE										
....CRUCIGENIA	--	-	110#	39	--	-	--	-	--	-
....SCENEDESMUS	--	-	--	-	50	1	--	-	71	1
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	5	7	--	-	50	1	--	-	--	-
..ZYGNEMATALES										
...DESMIDIACEAE										
....CLOSTERIUM	5	7	--	-	--	-	--	-	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	41#	53	59#	21	1300#	24	43#	19	110	2
....MELOSIRA	10	13	70#	24	3600#	66	87#	38	110	2
..PENNALES										
...FRAGILARIACEAE										
....ASTERIONELLA	--	-	--	-	*	0	--	-	--	-
....FRAGILARIA	--	-	--	-	--	-	14	6	--	-
....SYNEDRA	--	-	--	-	--	-	--	-	*	0
...NAVICULACEAE										
....NAVICULA	*	0	35	12	--	-	14	6	*	0
....NEIDIUM	--	-	3	1	--	-	--	-	--	-
....STAURONEIS	5	7	--	-	--	-	--	-	--	-
...NITZSCHIACEAE										
....NITZSCHIA	10	13	7	2	76	1	14	6	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)										
.MYXOPHYCEAE										
..CHROOCOCCALES										
...CHROOCOCCACEAE										
....AGMENELLUM	--	-	--	-	--	-	--	-	5500#	78
....ANACYSTIS	--	-	--	-	--	-	--	-	970	14
..OSCILLATORIALES										
...NOSTOCACEAE										
....ANABAENOPSIS	--	-	--	-	--	-	--	-	59	1
...OSCILLATORIACEAE										
....LYNGBYA	--	-	--	-	--	-	--	-	47	1
....OSCILLATORIA	--	-	--	-	150	3	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)										
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....TRACHELOMONAS	--	-	--	-	--	-	--	-	35	1

02429500 ALABAMA RIVER AT CLAIBORNE, AL--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	114	107	130	123	123	110	141	130	112	103	115	104
2	116	108	133	123	132	113	137	130	121	104	109	104
3	115	108	130	118	135	118	135	128	119	107	111	104
4	115	108	130	121	128	114	131	125	116	111	114	101
5	115	109	133	124	125	109	128	119	121	110	110	103
6	115	109	136	125	129	124	128	119	122	112	121	109
7	116	109	137	128	127	119	130	119	122	113	126	112
8	116	111	139	131	125	110	131	119	121	111	120	109
9	119	111	139	129	122	114	126	119	120	110	120	107
10	119	111	137	129	124	119	134	126	126	114	106	104
11	121	111	140	133	125	118	137	120	126	119	105	99
12	120	112	142	135	126	109	143	121	121	115	108	99
13	120	111	141	132	113	108	138	114	121	112	108	97
14	119	110	135	126	120	113	129	119	122	112	129	104
15	119	112	132	126	127	119	133	109	124	114	121	102
16	120	115	132	125	132	124	121	112	127	117	112	106
17	121	115	130	124	127	114	120	106	122	113	111	100
18	122	113	130	120	122	111	112	103	123	115	101	95
19	119	111	130	124	123	117	114	104	131	117	99	92
20	117	112	129	120	127	119	114	105	133	123	96	90
21	122	112	125	119	133	122	113	102	129	122	98	92
22	123	112	129	120	136	128	112	103	124	113	105	95
23	120	110	130	121	140	130	111	100	122	106	107	99
24	117	113	133	124	140	115	104	99	111	94	106	100
25	117	112	132	124	135	128	104	95	112	90	106	93
26	119	113	132	126	132	125	108	100	134	114	104	94
27	121	114	131	125	128	119	103	97	123	100	98	94
28	121	114	127	113	136	126	110	99	109	99	100	94
29	125	118	123	109	132	126	112	104	---	---	99	93
30	127	121	118	106	130	125	111	102	---	---	95	90
31	129	124	---	---	138	127	109	101	---	---	108	96
MONTH	129	107	142	106	140	108	143	95	134	90	129	90

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	109	85	95	84	103	98					---	---
2	84	80	91	84	105	100					---	---
3	84	80	88	84	105	97					---	---
4	80	75	88	83	104	97					---	---
5	78	71	90	83	105	99					---	---
6	75	67	90	87	106	101					---	---
7	74	67	92	84	108	101					---	---
8	74	67	91	84	---	---					---	---
9	77	70	91	85	---	---					---	---
10	79	70	93	86	---	---					---	---
11	81	73	94	88	---	---					---	---
12	83	75	94	85	---	---					---	---
13	84	75	93	86	---	---					---	---
14	84	75	94	86	---	---					---	---
15	84	75	95	88	---	---					---	---
16	84	76	---	---	---	---					---	---
17	85	74	---	---	---	---					---	---
18	80	75	88	83	---	---					---	---
19	83	75	89	83	---	---					---	---
20	85	78	89	83	---	---					---	---
21	86	81	89	85	---	---					---	---
22	89	83	94	86	---	---					---	---
23	87	83	89	84	---	---					---	---
24	87	81	89	84	---	---					---	---
25	91	83	93	87	---	---					---	---
26	95	87	94	89	---	---					---	---
27	96	88	95	90	---	---					---	---

02429500 ALABAMA RIVER AT CLAIBORNE, AL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	26.0	25.5	18.5	18.0	11.5	11.0	8.5	8.5	6.5	6.0	12.0	11.5
2	25.5	25.0	18.0	17.5	11.0	11.0	8.5	8.0	6.5	6.0	12.5	12.0
3	25.5	25.0	18.0	17.5	11.5	11.0	8.0	7.5	6.5	6.0	12.0	12.0
4	25.5	25.0	17.5	17.0	11.0	10.5	8.0	7.5	7.0	6.5	12.5	12.0
5	25.5	25.0	17.5	17.0	11.0	10.5	8.0	7.5	7.0	6.5	13.0	12.5
6	25.0	24.5	17.0	16.5	11.0	10.5	8.0	7.5	7.0	6.5	13.0	12.5
7	24.5	24.0	17.5	16.5	11.0	10.5	8.0	7.5	7.0	6.5	13.0	13.0
8	24.0	23.5	17.0	16.0	10.5	10.0	8.0	7.5	7.0	6.5	13.0	12.0
9	23.5	23.0	16.5	16.0	10.5	10.0	8.0	7.5	7.0	6.5	13.0	12.5
10	23.5	23.0	16.5	16.0	10.0	10.0	8.5	7.5	7.5	6.5	12.5	12.5
11	23.5	22.5	16.5	16.0	10.0	10.0	8.0	7.5	7.5	7.0	12.5	12.5
12	23.0	22.5	16.5	16.0	10.5	10.0	8.0	7.0	8.0	7.5	13.5	12.5
13	22.5	22.0	16.0	15.5	10.5	10.0	7.5	7.0	9.0	8.0	14.0	13.5
14	22.5	22.0	16.0	15.0	10.0	10.0	7.0	6.5	9.0	8.5	14.5	14.0
15	22.5	21.5	15.5	15.0	11.0	10.0	7.0	6.5	9.5	8.5	14.5	14.5
16	22.0	22.0	15.0	15.0	11.0	10.5	7.0	7.0	9.0	8.5	15.0	14.5
17	22.0	21.5	15.0	12.5	11.0	10.5	7.5	6.5	9.0	8.5	15.5	15.0
18	21.5	21.0	13.0	12.5	11.0	10.5	7.0	6.5	8.5	8.5	15.5	15.5
19	21.5	21.0	13.0	13.0	11.0	11.0	6.5	5.5	9.5	8.5	16.0	15.5
20	21.5	21.0	13.0	13.0	11.5	11.0	6.0	5.0	10.0	9.0	16.5	16.0
21	21.5	21.0	13.5	13.0	11.5	11.0	6.0	5.0	10.0	9.0	17.0	16.5
22	21.0	20.5	13.0	12.5	11.0	10.0	6.0	5.5	10.0	9.5	16.5	16.5
23	20.5	20.0	12.5	12.5	10.5	9.5	6.0	5.5	11.0	10.0	16.5	16.0
24	20.5	20.0	12.5	12.0	10.0	9.0	6.0	5.5	12.0	10.5	16.0	15.5
25	20.5	20.0	12.5	12.0	10.0	9.5	6.5	5.5	12.0	11.0	15.5	15.0
26	20.5	19.5	12.5	12.0	10.0	9.5	6.5	6.0	12.5	11.5	16.0	15.5
27	20.0	19.5	12.5	12.0	9.5	9.5	6.5	6.0	12.5	12.0	16.0	15.5
28	19.5	19.0	13.0	12.5	9.5	9.0	7.0	6.0	12.5	12.0	16.0	16.0
29	19.0	18.5	12.5	12.0	9.5	9.0	7.0	6.0	---	---	16.5	16.0
30	19.5	18.5	11.5	11.0	9.0	9.0	6.5	6.5	---	---	17.0	16.5
31	19.0	18.5	---	---	9.5	8.5	6.5	6.0	---	---	17.5	17.0
MONTH	26.0	18.5	18.5	11.0	11.5	8.5	8.5	5.0	12.5	6.0	17.5	11.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	17.5	17.0	21.5	21.0	27.5	27.0					---	---
2	18.0	17.5	21.5	21.0	27.5	27.5					---	---
3	18.5	18.0	21.5	21.5	27.5	27.0					---	---
4	19.0	18.5	22.0	21.0	27.5	27.0					---	---
5	18.5	18.5	22.5	21.5	28.0	27.0					---	---
6	18.5	18.0	23.0	22.5	28.5	27.5					---	---
7	18.0	18.0	23.0	22.5	28.0	27.5					---	---
8	18.5	18.0	23.5	23.0	---	---					---	---
9	18.5	18.0	23.5	23.5	---	---					---	---
10	18.5	18.0	24.0	23.0	---	---					---	---
11	18.5	18.0	24.0	23.5	---	---					---	---
12	18.5	18.5	24.0	23.5	---	---					---	---
13	19.0	18.5	24.0	23.5	---	---					---	---
14	19.0	18.5	24.0	24.0	---	---					---	---
15	19.5	19.0	24.5	24.0	---	---					---	---
16	19.5	19.0	---	---	---	---					---	---
17	19.5	19.0	---	---	---	---					---	---
18	19.5	19.5	25.0	24.5	---	---					---	---
19	20.0	19.5	25.5	25.0	---	---					---	---
20	20.0	19.5	26.0	25.0	---	---					---	---
21	20.0	20.0	26.0	25.5	---	---					---	---
22	20.5	20.0	26.0	25.5	---	---					---	---
23	20.5	20.0	26.5	25.5	---	---					---	---
24	20.5	20.5	26.5	26.0	---	---					---	---
25	20.5	20.5	26.0	26.0	---	---					---	---
26	20.5	20.5	26.5	26.0	---	---					---	---
27	20.5	20.0	26.0	26.0	---	---					---	---
28	20.5	20.5	26.0	25.5	---	---					---	---
29	21.0	20.5	27.5	25.5	---	---					27.5	27.5
30	21.5	21.0	25.5	23.5	---	---					28.0	27.5
31	---	---	28.0	24.0	---	---					---	---
MONTH	21.5	17.0	28.0	21.0	28.5	27.0					---	---

02429595 LITTLE RIVER NEAR URIAH, AL

LOCATION.--Lat 31°14'31", long 87°36'50", in NW¼ sec. 7, T. 3 N., R. 5 E., Escambia County, Hydrologic Unit 03150204, on left bank 150 ft (46 m) upstream from bridge on county road, 7 mi (11 km) northwest of McCullough.

DRAINAGE AREA.--99.2 mi^2 (256.9 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 130 ft (39.6 m) from topographic map.

REMARKS.--Water-discharge records fair.

AVERAGE DISCHARGE.--9 years, 175 ft^3/s (4.96 m^3/s), 23.96 in/yr (609 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,500 ft^3/s (354 m^3/s) Sept. 8, 1974, gage height, 16.14 ft (4.919 m); minimum, 43 ft^3/s (1.22 m^3/s) Oct. 4, 1970.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,200 ft^3/s (34.0 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 13	0800	1360	38.5	6.03	1.838	Sept. 17	0700	*1730	49.0	*7.21	2.198

Minimum daily discharge, 48 ft^3/s (1.36 m^3/s) July 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87	120	203	121	148	173	531	97	98	50	348	122
2	84	100	173	117	138	145	319	99	104	49	210	108
3	84	90	157	272	157	132	244	126	76	49	352	99
4	82	85	131	269	227	529	214	138	70	84	182	102
5	82	80	120	170	163	631	237	110	69	56	160	113
6	129	78	114	130	134	285	194	99	66	53	194	166
7	146	78	244	230	124	251	170	94	66	50	272	289
8	108	77	219	220	120	194	157	94	65	48	145	144
9	97	77	146	170	118	169	148	166	64	60	120	117
10	90	77	124	230	113	256	139	120	64	80	140	138
11	85	77	203	220	112	381	133	98	64	100	260	181
12	82	78	280	150	112	502	127	92	63	80	186	156
13	80	80	267	130	112	1030	124	88	62	70	195	139
14	79	80	203	400	105	378	121	85	65	63	134	148
15	79	83	179	900	104	260	122	86	66	62	152	173
16	80	110	165	400	99	229	117	90	70	110	159	516
17	121	100	138	250	98	205	112	84	80	90	139	1330
18	103	108	124	190	100	192	110	84	70	70	235	630
19	87	96	118	170	104	179	110	81	66	100	256	314
20	82	122	164	150	108	168	104	77	90	95	370	356
21	78	121	173	140	99	173	105	73	110	130	221	247
22	75	93	133	130	98	365	187	74	80	80	148	200
23	73	85	122	130	105	214	399	102	68	70	152	178
24	72	81	117	140	378	173	181	103	65	67	195	168
25	72	81	158	150	242	170	134	90	70	69	698	163
26	72	104	396	130	145	158	122	88	64	64	292	156
27	72	194	208	140	410	154	116	93	56	68	281	179
28	70	476	160	152	294	328	107	120	54	77	171	165
29	70	910	142	132	---	878	103	110	152	182	174	152
30	70	342	126	125	---	390	100	100	50	311	148	150
31	200	---	130	134	---	459	---	92	---	730	140	---
TOTAL	2791	4283	5337	6392	4267	9751	5087	3053	2207	3267	6829	7099
MEAN	90.0	143	172	206	152	315	170	98.5	73.6	105	220	237
MAX	200	910	396	900	410	1030	531	166	152	730	698	1330
MIN	70	77	114	117	98	132	100	73	50	48	120	99
CFSM	.91	1.44	1.73	2.08	1.53	3.18	1.71	.99	.74	1.06	2.22	2.39
IN.	1.05	1.61	2.00	2.40	1.60	3.66	1.91	1.14	.83	1.23	2.56	2.66

CAL YR 1976 TOTAL 62899 MEAN 172 MAX 910 MIN 70 CFSM 1.73 IN 23.59
WTR YR 1977 TOTAL 60363 MEAN 165 MAX 1330 MIN 48 CFSM 1.66 IN 22.64

02429595 LITTLE RIVER NEAR URIAH, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1976 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water years 1969, 1971-76.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
NOV											
18...	119	23	5.7	10.5	11.0	5	2	.8	.6	2.5	.5
DEC											
15...	176	22	6.0	11.0	10.8	6	3	1.3	.6	2.5	.5
JAN											
28...	155	24	5.3	10.0	7.8	6	5	1.4	.5	1.8	.3
MAR											
08...	195	25	3.6	10.5	10.9	5	5	1.0	.5	2.5	.5
APR											
20...	107	24	6.0	18.0	8.7	5	1	1.1	.5	2.7	.5
JUN											
02...	106	25	5.9	21.5	9.9	5	2	.9	.5	2.6	.5
JUL											
21...	121	25	5.8	27.0	8.8	6	3	1.5	.5	2.7	.5
SEP											
01...	123	24	5.6	24.0	8.0	8	3	2.0	.8	2.3	.3

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)
NOV											
18...	.5	4	0	2.2	4.0	.0	8.2	22	7.07	.29	1.3
DEC											
15...	.4	4	0	1.8	3.2	.0	8.8	21	9.98	.17	.77
JAN											
28...	.3	2	0	2.2	2.8	.0	6.2	18	7.53	.38	1.7
MAR											
08...	.3	0	0	2.0	3.8	.1	8.3	20	10.5	.29	1.3
APR											
20...	.4	5	0	.0	6.2	.0	5.9	20	5.78	.21	.95
JUN											
02...	.5	4	0	.6	3.8	.0	5.8	19	5.44	.50	2.2
JUL											
21...	.4	3	0	1.6	5.3	.0	7.9	21	6.86	.02	.08
SEP											
01...	.2	6	0	.0	4.2	.0	7.3	24	7.97	.73	3.2

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
NOV										
18...	1	<1	ND	1	270	1	40	<.2	10	10
DEC										
15...	1	ND	ND	1	110	1	68	<.2	10	30
JAN										
28...	1	<1	ND	1	60	1	45	ND	10	20
MAR										
08...	1	1	ND	<1	170	1	77	<.2	20	20
APR										
20...	ND	1	ND	1	240	1	12	<.2	40	20
JUN										
02...	1	<1	ND	1	260	2	17	<.2	40	20
JUL										
21...	ND	<1	ND	1	280	2	28	<.2	30	80
SEP										
01...	2	<1	1	<1	510	ND	68	.4	100	70

02444000 COAL FIRE CREEK NEAR PICKENSVILLE, AL

LOCATION.--Lat 33°17'51", long 88°15'56", in NE¼ sec. 25, T. 20 S., R. 17 W., Pickens County, Hydrologic Unit 03160106. near center of channel on downstream side of bridge on State Highway 14, 4.5 mi (7.2 km) north of Pickensville, and at mile 4.5 (7.2 km).

DRAINAGE AREA.--131 mi^2 (339 km^2).

PERIOD OF RECORD.--October 1954 to September 1971, October 1974 to current year (October 1971 to September 1974, low flow and flood-hydrograph only).

REVISED RECORDS.--WSP 1704: 1958.

GAGE.--Water-stage recorder. Datum of gage is 148.50 ft (45.263 m) above mean sea level.

REMARKS.--Records good. Records of specific conductance and water temperature for the water year 1977 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--20 years (water years 1959-71, 1975-77), 168 ft^3/s (4.758 m^3/s), 17.41 in/yr (442 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,820 ft^3/s (278 m^3/s) Mar. 20, 1970, gage height, 10.45 ft (3.185 m); minimum, 2.0 ft^3/s (0.057 m^3/s) Sept. 25, 1955, Aug. 12, 1956, gage height, 0.42 ft (0.128 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft^3/s (28.3 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 11	1900	1300	36.8	7.22	2.201	Mar. 13	2400	2470	70.0	8.27	2.521
Mar. 6	0400	1720	48.7	7.71	2.350	Apr. 4	2400	*6760	191	*9.84	2.999

Minimum discharge, 15 ft^3/s (0.42 m^3/s) July 8, 9, gage height, 0.72 ft (0.219 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	79	215	161	162	551	312	95	41	29	59	30
2	39	74	201	141	156	474	314	90	50	25	48	29
3	35	59	127	140	150	428	708	84	47	22	43	28
4	32	52	100	165	145	828	4290	135	35	21	56	27
5	31	48	91	176	141	1210	5560	125	31	19	62	28
6	43	45	87	171	137	1570	2790	122	28	18	97	38
7	107	44	94	189	127	1170	1200	103	26	17	87	138
8	112	43	119	215	119	844	800	87	24	16	54	192
9	104	43	120	386	117	631	600	78	23	15	42	180
10	61	43	103	693	116	503	500	76	22	20	36	194
11	48	44	95	1140	113	406	400	70	22	23	34	109
12	43	50	157	1050	120	815	350	63	21	21	32	72
13	39	67	242	737	148	1680	290	60	19	20	29	60
14	38	79	274	593	164	1920	250	56	19	22	28	52
15	36	88	299	493	152	1030	200	53	18	39	27	52
16	36	103	304	489	128	678	180	50	17	48	26	58
17	36	98	232	459	114	505	160	48	20	61	26	64
18	36	77	160	410	109	408	140	46	24	50	27	63
19	40	67	135	324	107	343	130	44	25	35	61	58
20	39	65	146	234	106	298	125	43	30	31	61	52
21	37	67	202	225	101	273	120	40	55	28	45	48
22	38	78	229	216	99	280	300	40	53	27	38	49
23	39	79	216	203	113	290	580	41	35	30	33	45
24	37	69	163	262	272	292	660	38	28	28	31	41
25	45	65	206	305	389	262	720	37	29	30	30	38
26	92	62	319	341	500	223	580	39	49	48	34	73
27	112	64	373	351	614	194	280	40	65	70	50	169
28	102	79	453	327	598	216	200	42	57	74	45	186
29	65	148	398	250	---	266	140	50	37	82	39	180
30	54	201	300	202	---	292	110	50	31	89	34	159
31	61	---	189	178	---	299	---	50	---	87	32	---
TOTAL	1677	2180	6349	11226	5317	19179	22989	1995	981	1145	1346	2512
MEAN	54.1	72.7	205	362	190	619	766	64.4	32.7	36.9	43.4	83.7
MAX	112	201	453	1140	614	1920	5560	135	65	89	97	194
MIN	31	43	87	140	99	194	110	37	17	15	26	27
CFSM	.41	.56	1.57	2.76	1.45	4.73	5.85	.49	.25	.28	.33	.64
IN.	.48	.62	1.80	3.19	1.51	5.45	6.53	.57	.28	.33	.38	.71

CAL YR 1976 TOTAL 77754 MEAN 212 MAX 2040 MIN 24 CFSM 1.62 IN 22.08
WTR YR 1977 TOTAL 76896 MEAN 211 MAX 5560 MIN 15 CFSM 1.61 IN 21.84

02444500 TOMBIGBEE RIVER NEAR COCHRANE, AL

LOCATION.--Lat 33°04'45", long 88°14'18", in N½ sec. 7, T. 24 N., R. 2 W., Pickens County, Hydrologic Unit 03160106, near left bank on downstream side of bridge on State Highway 17, 1.2 mi (1.9 km) northeast of Cochrane, 2.2 mi (3.5 km) downstream from Boguechitto Creek, 7 mi (11 km) southwest of Aliceville, and at mile 271.4 (436.7 km).

DRAINAGE AREA.--5,990 mi^2 (15,500 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1938 to current year. Monthly discharge only for period October to December 1938, published in WSP 1304: Gage-height records collected at same site from November 1909 to September 1924 are contained in reports of the National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 89.85 ft (27.386 m) above mean sea level. Prior to July 10, 1939, nonrecording gage at site 200 ft (61 m) downstream at same datum. Since Jan. 30, 1940, auxiliary water-stage recorder or nonrecording gage 14 mi (23 km) downstream from base gage at datum 7.76 ft (2.365 m) lower.

REMARKS.--Water-discharge record good, except those for period of no auxiliary gage-height record Mar. 2-16, which are poor.

AVERAGE DISCHARGE.--39 years, 8,655 ft^3/s (245.1 m^3/s), 19.62 in/yr (498 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 166,000 ft^3/s (4,700 m^3/s) Mar. 31, 1973; maximum gage height, 47.37 ft (14.439 m) Mar. 21, 1973; minimum discharge, 165 ft^3/s (4.67 m^3/s) Sept. 21, 1954; gage height 2.34 ft (0.713 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in April 1892 reached a stage of 50.2 ft (15.30 m), present datum (discharge not determined), from reports of National Weather Service.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 69,000 cfs (1,950 m^3/s) Mar. 12; maximum gage height, 39.55 ft (12.055 m) Mar. 12; minimum, 620 ft^3/s (17.6 m^3/s) Sept. 5, 6, gage height 3.60 ft (1.097 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1360	4390	8710	6510	6000	23200	10800	4440	1950	1080	2720	703
2	1550	4570	7520	6000	5400	21000	10500	3820	2100	1020	2550	680
3	1490	3900	5640	5320	5000	18000	15000	3470	2440	938	2110	659
4	1390	3100	4380	4980	4700	16000	21000	3540	2270	884	1870	637
5	1320	2510	3690	5320	4500	30000	40000	3610	1940	848	1600	625
6	1370	2180	3250	5740	4200	42000	50000	5050	1740	818	1360	700
7	1400	1960	2990	7190	4000	52000	60000	5690	1530	794	1320	2470
8	1540	1770	2960	9840	3700	56000	63000	5670	1380	776	1320	1720
9	1860	1660	2940	13600	3600	62000	64000	4580	1280	788	1250	1460
10	1960	1600	2860	23800	3400	65000	64000	5150	1180	830	1100	1630
11	1800	1570	2750	28500	3300	68000	60000	5520	1170	1360	990	1670
12	1600	1580	3800	31800	3200	69000	50000	3940	1100	1550	930	1510
13	1460	1580	9620	32400	4000	66400	40000	3070	1090	1760	882	1220
14	1370	1680	11800	30900	4400	61900	22000	2600	1040	1850	839	1050
15	1310	1810	10400	29900	4580	59000	13000	2320	980	1650	810	1130
16	1260	1890	8400	28600	4490	55700	7110	2150	920	1480	799	1920
17	1220	1980	6500	25500	4060	54100	6050	2030	980	1330	796	1940
18	1190	1990	5090	22000	3660	51200	5220	1990	1200	1380	800	1800
19	1180	1900	4150	16200	3400	46300	4660	1880	1400	1690	837	1710
20	1220	1830	3700	10000	3240	38900	4270	1850	1800	1460	965	1630
21	1220	1780	5540	7530	3150	31700	4040	1710	2100	1220	1310	1790
22	1210	1760	7850	6560	3060	21700	12000	1680	2200	1080	1310	2010
23	1280	1800	7320	7160	3270	12400	20000	1630	2000	1060	1080	1860
24	1360	1850	6360	7080	8130	9070	22000	1580	1600	1030	929	1600
25	1470	1820	5840	9800	15100	8170	17000	1540	1300	1120	935	1350
26	1550	1750	11300	14000	17200	7520	14000	1470	1200	1310	876	1470
27	2630	1750	15100	13000	20600	7430	10000	1570	1140	2070	851	3090
28	3660	2130	15700	11500	22800	7370	8000	1680	1140	2570	857	2780
29	3570	4800	14400	9000	---	8670	7000	1740	1060	2550	809	5060
30	2890	8560	11100	8000	---	10800	5460	1900	1060	2430	758	6900
31	2630	---	7580	7000	---	12400	---	1900	---	2890	728	---
TOTAL	52320	73450	219240	444730	176140	1092930	730110	90770	44290	43616	36291	54774
MEAN	1688	2448	7072	14350	6291	35260	24340	2928	1476	1407	1171	1826
MAX	3660	8560	15700	32400	22800	69000	64000	5690	2440	2890	2720	6900
MIN	1180	1570	2750	4980	3060	7370	4040	1470	920	776	728	625
CFSM	.28	.41	1.18	2.40	1.05	5.89	4.06	.49	.25	.24	.20	.31
IN.	.32	.46	1.36	2.76	1.09	6.79	4.53	.56	.28	.27	.23	.34

CAL YR 1976 TOTAL 3145496 MEAN 8594 MAX 45800 MIN 790 CFSM 1.44 IN 19.53
WTR YR 1977 TOTAL 3058661 MEAN 8380 MAX 69000 MIN 625 CFSM 1.40 IN 19.00

02444500 TOMBIGBEE RIVER NEAR COCHRANE, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1969 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1971 to current year.
WATER TEMPERATURES: October 1971 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1971.

REMARKS.--No specific conductance or temperature data for some days due to recorder malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 267 micromhos Aug. 25, 1977; minimum, 55 micromhos Mar. 21, 1975.
WATER TEMPERATURES: Maximum (water years 1972 and 1975), 32.5°C July 25, 1972; minimum, 1.0°C Jan. 19-21, 1977.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 267 micromhos Aug. 25; minimum, 65 micromhos Jan. 13.
WATER TEMPERATURES: Minimum, 1.0°C Jan. 19-21.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	BICARBONATE (HCO3) (MG/L)
OCT								
27...	2520	130	7.6	14.0	15	9.8	2.0	30
NOV								
17...	1930	98	6.4	8.5	15	10.8	3.0	30
FEB								
17...	3250	112	7.3	8.0	15	10.5	2.2	31
MAR								
18...	51000	71	7.3	17.0	70	6.7	1.1	30
JUN								
16...	961	130	7.9	30.0	7.0	--	2.0	47
JUL								
12...	1560	152	7.1	29.5	4.0	7.2	1.7	47
AUG								
11...	944	140	7.9	31.0	10	7.5	--	39
SEP								
15...	1070	162	7.9	26.5	20	7.5	2.1	33

DATE	CARBONATE (CO3) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)
OCT							
27...	0	.30	.00	.56	.56	2.0	.00
NOV							
17...	0	.19	.14	.25	.39	.15	.10
FEB							
17...	0	.15	.04	.39	.43	.10	.01
MAR							
18...	0	.01	.06	.58	.64	.13	.02
JUN							
16...	0	.00	.01	.60	.61	.09	.04
JUL							
12...	0	.04	.04	.82	.86	.08	.03
AUG							
11...	0	.20	.04	.67	.71	.13	.07
SEP							
15...	0	.22	.05	.40	.45	.13	.07

02444500 TOMBIGBEE RIVER NEAR COCHRANE, AL--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1			---	---	124	102	86	81	89	87	105	87
2			---	---	101	93	104	86	93	87	88	83
3			---	---	95	86	105	99	93	89	90	73
4			---	---	88	85	97	92	97	88	119	74
5			---	---	88	86	121	95	100	94	118	102
6			---	---	88	86	134	120	100	94	103	87
7			---	---	96	88	158	131	101	95	86	95
8			---	---	104	97	172	150	101	95	78	91
9			---	---	113	103	170	104	102	93	70	66
10			---	---	106	103	103	86	98	93	66	66
11			---	---	124	105	91	75	94	93	66	66
12			---	---	168	119	75	66	99	93	76	66
13			---	---	159	142	71	65	97	95	77	69
14			---	---	141	115	83	71	120	97	79	77
15			---	---	114	106	85	77	122	114	78	73
16			---	---	106	99	92	78	129	122	73	71
17			---	---	104	99	78	73	123	97	72	71
18			---	---	102	96	75	73	108	93	73	71
19			---	---	99	96	75	71	98	94	195	73
20			---	---	111	98	73	70	109	97	195	74
21			---	---	157	108	72	70	108	97	193	185
22			---	---	178	130	82	71	105	96	184	178
23			---	---	132	99	96	82	138	97	178	95
24			---	---	113	91	110	96	153	122	179	91
25			---	---	120	102	130	98	169	131	183	90
26			---	---	135	103	120	89	148	105	188	93
27			---	---	140	97	103	86	129	106	115	92
28			---	---	95	88	86	82	114	95	127	108
29			162	156	93	88	87	82	---	---	135	99
30			151	124	88	83	90	87	---	---	133	130
31			---	---	83	81	90	87	---	---	---	---
MONTH			---	---	178	81	172	65	169	87	195	66

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1					---	---	172	125	---	---	153	145
2					---	---	164	130	---	---	152	147
3					---	---	145	130	---	---	165	152
4					---	---	145	134	---	---	167	164
5					---	---	164	150	---	---	166	156
6					---	---	167	145	---	---	177	156
7					---	---	192	159	---	---	178	124
8					---	---	204	182	---	---	163	150
9					---	---	---	---	---	---	176	165
10					---	---	---	---	---	---	186	171
11					---	---	---	---	143	141	188	169
12					---	---	---	---	153	143	181	159
13					---	---	---	---	154	147	187	165
14					---	---	239	205	146	133	193	181
15					---	---	263	239	138	132	192	162
16					145	137	260	208	155	143	202	166
17					154	145	---	---	163	150	180	158
18					154	150	---	---	160	156	159	128
19					154	150	---	---	156	152	128	121
20					176	145	---	---	163	155	138	121
21					167	134	---	---	161	155	120	107
22					214	176	---	---	173	163	131	107
23					208	164	---	---	190	168	170	135
24					159	136	---	---	265	192	174	159
25					134	122	---	---	267	212	172	132
26					125	104	---	---	210	175	174	133
27					122	112	---	---	176	170	173	136
28					122	115	---	---	168	152	160	130
29					130	119	---	---	151	133	194	144
30					130	119	---	---	153	138	147	89
31					---	---	---	---	156	154	---	---
MONTH					214	104	263	125	267	132	202	89
YEAR	267	65										

02444500 TOMBIGBEE RIVER NEAR COCHRANE, AL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1			---	---	4.5	4.0	4.0	3.0	3.5	3.0	13.0	12.0
2			---	---	4.5	4.0	3.0	2.5	4.0	2.5	12.0	11.5
3			---	---	4.5	4.0	2.5	2.5	3.0	2.5	12.0	11.5
4			---	---	5.0	4.0	2.5	2.5	4.0	3.0	13.5	12.5
5			---	---	5.5	4.5	3.0	2.5	4.0	3.0	13.5	13.5
6			---	---	5.5	5.0	3.5	3.0	5.0	4.0	14.0	13.5
7			---	---	5.5	5.0	4.0	3.5	5.0	4.5	13.5	13.0
8			---	---	5.5	4.5	4.0	3.5	5.5	4.5	13.0	13.0
9			---	---	6.0	5.0	4.5	4.0	5.5	4.0	13.0	13.0
10			---	---	6.0	5.5	4.0	3.0	6.5	4.0	13.0	13.0
11			---	---	6.5	6.0	3.0	2.0	6.5	5.5	14.0	13.0
12			---	---	8.5	6.5	2.0	1.5	7.0	6.0	14.5	14.0
13			---	---	8.5	8.0	1.5	1.5	7.5	6.5	15.5	14.5
14			---	---	8.0	7.5	2.5	1.5	7.5	6.0	16.5	15.5
15			---	---	8.0	7.5	3.5	2.5	8.0	6.0	17.0	16.5
16			---	---	8.0	7.5	3.5	3.0	8.0	6.5	17.5	17.0
17			---	---	8.0	7.5	3.0	2.5	7.5	7.5	17.5	17.5
18			---	---	8.0	7.5	2.5	1.0	9.5	8.0	18.0	17.5
19			---	---	8.0	8.0	1.0	1.0	10.0	8.5	18.0	18.0
20			---	---	8.0	7.0	1.0	1.0	9.5	8.5	17.5	17.5
21			---	---	7.0	6.0	1.0	1.0	10.0	8.0	---	---
22			---	---	6.0	5.0	1.5	1.0	11.0	8.5	---	---
23			---	---	5.0	3.5	2.0	1.5	12.5	10.0	16.5	16.5
24			---	---	4.0	3.5	2.5	2.0	12.0	11.0	---	---
25			---	---	4.0	4.0	3.0	2.5	12.5	11.5	---	---
26			---	---	4.0	4.0	3.0	3.0	13.5	12.0	---	---
27			---	---	4.5	4.0	4.0	3.0	14.0	13.5	---	---
28			---	---	5.0	4.5	5.0	4.0	13.5	13.0	---	---
29			6.0	6.0	5.0	5.0	4.5	4.0	---	---	---	---
30			5.5	5.5	5.5	5.0	4.0	3.5	---	---	---	---
31			---	---	5.0	4.0	4.0	3.5	---	---	---	---
MONTH			---	---	8.5	3.5	5.0	1.0	14.0	2.5	18.0	11.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1					---	---	---	---	---	---	30.0	27.5
2					---	---	---	---	---	---	29.5	27.5
3					---	---	---	---	---	---	29.5	27.5
4					---	---	---	---	---	---	29.0	27.5
5					---	---	---	---	---	---	28.5	27.5
6					---	---	---	---	---	---	27.5	26.0
7					---	---	---	---	---	---	25.5	24.0
8					---	---	---	---	---	---	26.0	24.5
9					---	---	---	---	---	---	26.0	25.5
10					---	---	---	---	---	---	27.0	26.0
11					---	---	---	---	31.0	29.5	27.5	26.0
12					---	---	---	---	31.0	29.0	26.5	25.5
13					---	---	---	---	31.5	29.0	27.0	26.0
14					---	---	30.0	29.5	31.5	29.0	26.5	25.5
15					---	---	30.0	29.0	32.0	29.5	27.0	25.5
16					---	---	30.0	29.0	32.0	29.5	26.5	25.5
17					31.0	22.5	---	---	30.5	29.5	26.0	25.5
18					31.0	23.0	---	---	30.0	29.0	27.0	25.5
19					28.5	24.5	---	---	30.0	28.0	27.0	25.5
20					29.0	28.5	---	---	29.5	28.0	26.0	25.0
21					29.0	28.5	---	---	29.0	28.0	26.0	25.0
22					30.0	28.5	---	---	29.5	28.0	26.0	25.0
23					31.0	27.5	---	---	29.5	28.5	26.0	25.0
24					32.0	25.0	---	---	30.5	28.5	25.5	25.0
25					32.5	25.0	---	---	30.0	28.5	26.0	25.0
26					32.5	24.5	---	---	30.0	28.5	25.5	24.5
27					32.0	25.5	---	---	30.5	28.5	25.0	24.0
28					32.5	25.0	---	---	29.5	28.0	25.0	24.0
29					31.5	24.0	---	---	29.5	27.5	25.0	23.0
30					31.5	25.5	---	---	30.0	27.5	23.5	22.5
31					---	---	---	---	30.0	28.0	---	---
MONTH					32.5	22.5	---	---	32.0	27.5	30.0	22.5
YEAR	32.5	1.0										

02448500 NOXUBEE RIVER NEAR GEIGER, AL

LOCATION.--Lat 32°55'06", long 88°17'45", in SE¼ sec. 33, T. 23 N., R. 3 W., Sumter County, Hydrologic Unit 03160108, near left bank on downstream side of bridge on State Highway 17, 0.5 mi (0.8 km) upstream from Woodards Creek, 1 mi (1.6 km) upstream from Alabama, Tennessee and Northern Railroad bridge, 4 mi (6.4 km) north of Geiger, and at mile 16.9 (27.2 km).

DRAINAGE AREA.--1,140 mi^2 (2,950 km^2), approximately.

PERIOD OF RECORD.--March 1939 to September 1940, July 1944 to September 1965, October 1965 to September 1966 (gage heights only), October 1966 to current year. (Monthly discharge only for period October to December 1966.)

REVISED RECORDS.--WSP 1384: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 86.08 ft (26.237 m) above mean sea level. Prior to Sept. 30, 1940, nonrecording gage at site of old highway bridge 1 mi (1.6 km) downstream at datum 84.64 ft (25.798 m) above mean sea level. July 26, 1944, to June 5, 1949, nonrecording gage at present site and datum. Water-stage recorder for Tombigbee River at Gainesville is used as an auxiliary gage for this station.

REMARKS.--Records fair. Discharge includes flow of Noxubee cutoff channel at bridge on State Highway 17, 1 mi (1.6 km) north of gage. Records of specific conductance and water temperature for the water year 1977 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--33 years (water years 1939-40, 1944-65, 1966-77), 1,516 ft^3/s (42.93 m^3/s), 18.05 in/yr (458 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 37,600 ft^3/s (1,060 m^3/s) Mar. 31, 1951, gage height, 42.7 ft (13.01 m); minimum, 13 ft^3/s (0.37 m^3/s) July 7, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 27,500 ft^3/s (779 m^3/s) Apr. 7, gage height, 40.72 ft (12.411 m); minimum, 85 ft^3/s (2.41 m^3/s) Sept. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	110	117	910	1060	835	4970	2280	476	180	124	711	94
2	114	142	559	772	739	4420	3950	430	173	184	544	97
3	115	132	481	655	676	3010	5980	404	194	162	438	93
4	108	131	379	793	634	6040	8240	392	175	116	408	89
5	106	144	296	952	606	8570	13200	401	151	104	354	86
6	123	130	248	928	578	9640	15900	406	156	104	295	106
7	120	112	242	1430	540	10000	25200	380	146	100	254	3020
8	132	95	266	2030	507	9420	23700	356	135	94	199	5100
9	185	92	385	3480	481	9240	19600	342	128	116	167	4880
10	146	91	360	7450	461	9730	15800	316	124	184	150	4130
11	164	90	342	8070	449	10000	12600	312	118	182	140	2300
12	170	90	481	7460	464	10900	9960	294	116	184	129	1410
13	146	89	1790	6920	715	11400	6910	276	112	378	125	1350
14	128	99	2330	6880	880	10600	2760	272	110	281	122	1060
15	117	119	1830	7180	817	10200	987	258	107	209	122	920
16	112	118	1370	6870	667	9830	596	246	109	177	118	2160
17	109	144	1290	6470	606	9200	549	232	110	171	115	2170
18	101	154	1090	6170	551	8660	537	224	117	175	125	1930
19	93	136	719	5560	507	7980	507	214	126	165	122	794
20	91	131	523	4170	473	6800	483	206	122	232	121	540
21	91	132	694	2670	447	4380	496	200	114	226	120	467
22	89	125	954	1550	425	4270	3220	192	129	161	111	407
23	90	133	753	1060	618	3010	6780	187	126	145	105	350
24	90	136	618	1400	3520	1860	7220	183	120	138	103	316
25	92	123	1080	2830	4410	1640	6180	230	111	137	122	291
26	93	119	3680	2730	2930	1220	4060	232	106	952	123	281
27	93	120	4360	2120	3620	822	2140	192	119	413	114	685
28	106	131	3700	1750	5140	1090	1240	173	112	617	102	666
29	110	207	2330	1640	---	2450	727	171	105	1760	97	594
30	104	1070	1590	1400	---	3220	548	272	107	1590	93	2030
31	104	---	1440	1050	---	2140	---	228	---	783	91	---
TOTAL	3552	4652	37090	105500	33296	196712	202350	8697	3858	10364	5940	38416
MEAN	115	155	1196	3403	1189	6346	6745	281	129	334	192	1281
MAX	185	1070	4360	8070	5140	11400	25200	476	194	1760	711	5100
MIN	89	89	242	655	425	822	483	171	105	94	91	86
CFSM	.10	.14	1.05	2.99	1.04	5.57	5.92	.25	.11	.29	.17	1.12
IN.	.12	.15	1.21	3.44	1.09	6.42	6.60	.28	.13	.34	.19	1.25

CAL YR 1976 TOTAL 623104 MEAN 1702 MAX 18100 MIN 89 CFSM 1.49 IN 20.33
WTR YR 1977 TOTAL 650427 MEAN 1782 MAX 25200 MIN 86 CFSM 1.56 IN 21.22

02449000 TOMBIGBEE RIVER AT GAINESVILLE, AL

LOCATION.--Lat 32°49'30", long 88°09'24", in SE¼ sec. 2, T. 21 N., R. 2 W., Sumter County, Hydrologic Unit 03160106, near right bank on downstream side of bridge on State Highway 39 at Gainesville, 2 mi (3.2 km) downstream from Noxubee River, and at mile 234.4 (377.1 km).

DRAINAGE AREA.--8,700 mi^2 (22,500 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1938 to September 1955, October 1955 to September 1960 (fragmentary), October 1960 to current year. Gage-height records collected at same site from 1937 to December 1971 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 63.29 ft (19.291 m) above mean sea level. Prior to Feb. 2, 1939, nonrecording gage at present site and datum. Water-stage recorder 1.5 mi (2.4 km) downstream from base gage used as base for low-water periods during 1963 water year. Since Oct. 15, 1939, auxiliary water-stage recorder 19.2 mi (30.9 km) downstream from base gage at datum 10.14 ft (3.091 m) lower. Prior to Oct. 15, 1939, auxiliary nonrecording gage 700 ft (213 m) upstream from site of auxiliary water-stage recorder.

REMARKS.--Water-discharge record fair. Corps of Engineers telemark at station.

AVERAGE DISCHARGE.--34 years (1938-55, 1960-77), 12,250 ft^3/s (346.9 m^3/s), 19.12 in/yr (486 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 172,000 ft^3/s (4,870 m^3/s) Mar. 23, 1973; maximum gage height, 54.21 ft (16.523 m) Mar. 23, 1973; minimum daily discharge, 250 ft^3/s (7.08 m^3/s) Sept. 21, 22, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 90,900 ft^3/s (2,570 m^3/s) Mar. 14; gage height, 44.66 ft (13.612 m); minimum daily, 1,290 ft^3/s (36.5 m^3/s) July 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1680	3960	9500	9730	9070	30100	20200	6530	2260	2010	4810	1400
2	2040	5030	8730	8610	8420	30000	23600	5800	2260	1590	3860	1320
3	2110	4550	7210	8010	7870	28000	28300	5190	2800	1400	4200	1330
4	2070	3890	5900	7820	7580	31200	98700	5370	2790	1480	2890	1320
5	2100	3200	4970	8090	6640	42200	58400	5320	2440	1430	2960	1320
6	2040	2760	4440	8360	6550	50600	70500	5780	1890	1390	2470	1650
7	1810	2380	4010	9570	6250	58800	79500	6890	2510	1290	2180	5110
8	2040	2200	4080	12200	5650	61800	87900	7050	2530	1300	2140	8870
9	2170	2100	3990	18400	5600	64900	89000	5980	2870	1530	1890	8610
10	2660	1940	4070	33600	5330	69800	86600	5920	2950	1510	1910	8210
11	2540	1770	3710	38000	5140	75700	82900	6810	2640	1570	1780	6600
12	2360	1750	4200	38900	4960	81300	75500	5870	2200	1960	1620	4880
13	2150	1870	8740	38800	6310	88300	66500	4530	2540	2190	1620	4160
14	1970	2030	13200	39300	6520	89600	60500	3820	2830	2250	1470	3550
15	1870	2180	13100	39800	6680	87900	35700	3350	1980	2280	1400	3110
16	1810	2340	11200	38900	6330	84300	17100	3030	2440	2060	1450	5090
17	1750	2510	9180	37500	6980	80000	9860	2920	1780	1920	1450	5410
18	1980	2600	7630	36100	6220	76200	8580	2490	1830	1880	1400	5260
19	1980	2520	6400	38000	6050	71800	7430	2400	1680	1960	1410	4130
20	2080	2410	5600	34200	5300	65000	6780	2320	1660	2130	1400	3300
21	1900	2290	6120	16800	4820	63500	6290	2250	2160	2070	1610	3340
22	1590	2240	9060	13500	5320	54800	11900	2260	2360	1720	1790	3550
23	1790	2180	9800	11600	5160	37600	24900	2200	2360	1560	1660	3550
24	1750	2350	8760	12300	16300	22700	28600	2010	2430	1710	1470	3240
25	1710	2360	8530	16600	22900	16500	25700	2070	1700	1920	1560	2960
26	1740	2350	14200	19100	23400	12800	19500	1890	1750	2160	1630	2610
27	2200	2190	19100	18200	25700	11300	13600	1940	1700	2470	1590	4320
28	3580	2310	20400	16000	29600	11200	10800	1950	1650	3360	1520	4870
29	3970	3340	18900	13400	---	14700	9060	2230	1590	4960	1350	5970
30	3670	7930	16000	11600	---	16100	7830	2260	1490	5040	1450	9670
31	2940	---	12600	10100	---	22900	---	2510	---	4250	1540	---
TOTAL	68050	83530	283330	663090	262650	1551600	1171730	120940	66070	66350	61480	128710
MEAN	2195	2784	9140	21390	9380	50050	39060	3901	2202	2140	1983	4290
MAX	3970	7930	20400	39800	29600	89600	98700	7050	2950	5040	4810	9670
MIN	1590	1750	3710	7820	4820	11200	6290	1890	1490	1290	1350	1320
CFSM	.25	.32	1.05	2.46	1.08	5.75	4.49	.45	.25	.25	.23	.49
IN.	.29	.36	1.21	2.84	1.12	6.63	5.01	.52	.28	.28	.26	.55

CAL YR 1976 TOTAL 4775080 MEAN 13050 MAX 80100 MIN 1590 CFSM 1.50 IN 20.42
WTR YR 1977 TOTAL 4527530 MEAN 12400 MAX 98700 MIN 1290 CFSM 1.43 IN 19.36

02449000 TOMBIGBEE RIVER AT GAINESVILLE, AL--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.55	11.51	15.29	15.52	14.26	26.40	23.40	13.14	11.13	10.93	12.23	10.53
2	10.84	12.03	14.86	14.64	13.83	26.31	24.54	12.74	11.20	10.70	11.88	10.40
3	10.84	12.03	13.87	14.25	13.57	25.19	25.94	12.44	11.37	10.71	11.98	10.47
4	10.73	11.68	12.93	14.25	13.30	27.30	30.55	12.54	11.35	10.62	11.67	10.40
5	10.66	11.38	12.28	14.40	13.12	31.43	37.00	12.42	11.24	10.52	11.75	10.36
6	10.58	11.20	11.98	14.53	12.92	35.00	39.96	12.71	10.89	10.48	11.35	10.49
7	10.83	11.01	11.94	15.26	12.66	37.29	41.88	13.19	10.99	10.58	11.19	12.19
8	10.91	10.93	11.84	16.72	12.62	38.11	43.73	13.20	10.90	10.63	10.94	14.06
9	11.10	10.90	12.07	20.64	12.94	38.95	44.43	12.85	10.88	10.69	10.87	14.42
10	11.19	10.81	12.14	28.14	12.30	39.96	44.24	12.74	10.88	10.67	11.01	13.77
11	10.93	10.75	12.05	29.94	12.18	41.24	43.60	13.14	10.88	10.70	10.95	12.61
12	10.83	10.74	12.10	30.39	12.31	42.80	42.51	12.68	10.88	10.89	10.73	11.69
13	10.74	10.78	14.67	30.37	12.80	44.25	40.67	11.98	10.87	11.00	10.72	11.58
14	10.67	10.88	17.42	30.62	12.84	44.57	37.25	11.73	10.86	11.17	10.63	11.55
15	10.61	10.93	17.56	30.66	13.23	44.37	31.41	11.32	10.86	11.11	10.55	11.48
16	10.58	11.18	16.45	30.20	12.86	43.88	22.43	11.14	10.79	10.96	10.45	12.14
17	10.52	11.28	15.22	29.59	12.99	43.13	16.47	11.12	10.80	10.91	10.46	12.31
18	10.50	11.26	14.27	28.89	12.59	42.24	14.89	11.30	10.80	10.75	10.57	12.21
19	10.48	11.22	13.42	28.73	12.18	41.18	14.25	11.38	10.90	10.90	10.63	11.57
20	10.45	11.18	12.90	26.32	12.20	39.59	13.69	10.98	10.82	11.03	10.57	11.46
21	10.45	11.02	13.32	19.44	11.90	37.42	13.46	10.85	10.97	10.95	10.62	11.46
22	10.62	10.89	15.07	17.27	12.25	36.66	15.80	10.94	11.17	10.71	10.59	11.39
23	10.83	11.02	15.63	16.15	12.34	31.43	22.73	10.90	11.11	10.72	10.55	11.33
24	10.69	11.15	14.89	16.19	18.79	24.29	25.27	10.98	11.06	10.63	10.61	11.21
25	10.60	10.97	14.84	18.41	22.26	19.68	24.35	11.04	11.05	10.62	10.69	11.08
26	10.56	10.93	18.15	19.86	23.12	17.48	21.41	11.00	10.95	11.08	10.81	10.87
27	10.74	10.96	20.81	19.61	24.41	16.27	17.85	11.02	10.75	11.31	10.98	11.86
28	11.34	10.99	21.53	18.43	25.99	16.09	15.80	11.10	10.69	11.72	11.02	12.32
29	11.66	11.58	20.88	17.11	---	18.54	14.62	11.16	10.69	12.56	10.71	12.49
30	11.60	14.14	19.22	15.86	---	22.23	13.85	11.10	10.85	12.91	10.48	14.08
31	11.42	---	17.26	14.87	---	23.77	---	11.23	---	12.33	10.57	---
MEAN	10.78	11.24	15.06	21.20	14.60	32.81	27.27	11.81	10.95	11.02	10.93	11.79
MAX	11.66	14.14	21.53	30.66	25.99	44.57	44.43	13.20	11.37	12.91	12.23	14.42
MIN	9.55	10.74	11.84	14.25	11.90	16.09	13.46	10.85	10.69	10.48	10.45	10.36

02449000 TOMBIGBEE RIVER AT GAINESVILLE, AL--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1962 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1971 to current year.
WATER TEMPERATURES: October 1962 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1971.

REMARKS.--No specific conductance data for some days because of recorder malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE (water years 1975, 1977): Maximum, 233 micromhos Aug. 28, 1977; minimum, 60 micromhos Mar. 22, 1975.
WATER TEMPERATURES: Maximum (water years 1962-69, 1971-76), 35.0°C July 25, 1972; minimum (water years 1962-70, 1972-75, 1977), 0.5°C Jan. 21, 1977.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 233 micromhos Aug. 28; minimum, 68 micromhos Mar. 11, July 13, 26.
WATER TEMPERATURES: Maximum, 33.5°C July 5; minimum, 0.5°C Jan. 21.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	TURBIDITY (NTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM .7UM-MF (COL./100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
OCT												
19...	1530	121	6.7	17.5	15	--	9.3	--	5	41	36	3
28...	3460	118	7.6	14.0	--	20	10.8	2.4	--	--	--	--
NOV												
16...	1870	90	7.4	8.0	30	--	11.7	--	82	140	29	3
18...	6860	88	6.6	9.0	--	15	11.1	2.0	--	--	--	--
DEC												
14...	13100	164	7.6	8.5	85	--	12.8	--	1500	1200	64	14
JAN												
25...	27100	115	7.4	3.0	45	--	--	--	180	420	48	11
FEB												
17...	6500	114	7.5	8.0	--	20	12.0	2.6	--	--	--	--
MAR												
11...	76200	67	6.9	12.0	90	--	8.2	--	--	--	--	--
18...	74500	76	7.1	17.0	--	60	6.7	1.6	45	92	--	--
APR												
06...	68200	80	7.6	17.0	150	--	--	--	460	550	36	4
MAY												
10...	5340	134	7.3	23.0	55	--	7.9	--	78	63	54	13
JUN												
06...	2360	128	8.2	29.0	15	--	--	--	--	--	43	0
15...	1620	132	7.4	30.0	--	9.0	--	1.6	8	29	--	--
JUL												
12...	1770	165	7.0	30.0	--	9.0	7.4	--	--	--	--	--
21...	2070	156	8.3	29.0	7	--	7.1	--	24	52	59	7
AUG												
09...	1880	137	8.0	32.0	15	15	6.9	--	21	8	49	8
SEP												
14...	3550	111	8.3	26.5	35	35	7.5	1.8	69	250	38	6

02449000 TOMBIGBEE RIVER AT GAINESVILLE, AL--Continued

WATER-QUALITY RECORDS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
OCT												
19...	12	1.5	7.0	.5	1.9	40	0	7.6	9.0	.1	7.5	64
28...	--	--	--	--	--	28	0	--	--	--	--	--
NOV												
16...	9.4	1.3	4.4	.4	1.8	31	0	7.9	4.9	.2	8.9	--
18...	--	--	--	--	--	29	0	--	--	--	--	--
DEC												
14...	23	1.5	5.0	.3	2.0	61	0	15	6.9	.2	7.1	99
JAN												
25...	17	1.3	4.0	.3	1.3	45	--	11	5.5	.2	7.0	--
FEB												
17...	--	--	--	--	--	42	0	--	--	--	--	--
MAR												
11...	--	--	4.4	--	1.1	29	0	6.5	2.8	.1	4.2	50
18...	--	--	--	--	--	31	0	--	--	--	--	--
APR												
06...	13	.9	3.7	.3	1.0	39	0	6.1	2.9	.1	4.9	62
MAY												
10...	19	1.6	3.4	.2	1.7	50	0	7.3	5.9	.0	7.2	--
JUN												
06...	15	1.4	6.4	.4	1.8	54	0	8.0	8.5	.1	6.6	77
15...	--	--	--	--	--	52	0	--	--	--	--	--
JUL												
12...	--	--	--	--	--	54	0	--	--	--	--	--
21...	21	1.5	6.9	.4	2.0	63	0	8.0	9.1	.1	7.1	102
AUG												
09...	17	1.5	5.4	.3	1.9	49	0	11	7.7	.1	8.3	--
SEP												
14...	13	1.3	11	.8	2.2	39	0	10	9.1	.1	8.0	84

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT												
19...	69	264	.23	--	--	.32	.12	--	--	23	95	96
28...	--	--	.14	.01	.42	.43	--	.10	--	--	--	--
NOV												
16...	55	278	.15	--	--	.38	.14	--	4.4	69	348	98
18...	--	--	.13	.08	.32	.40	.11	.05	--	--	--	--
DEC												
14...	91	3500	.42	--	--	.97	.44	--	--	280	9900	93
JAN												
25...	73	5340	.28	--	--	.60	.19	--	--	160	11700	96
FEB												
17...	--	--	.18	.03	.36	.39	.10	.01	--	--	--	--
MAR												
11...	--	10300	.08	--	--	.69	.19	--	--	233	47900	60
18...	--	--	.00	.05	.57	.62	.13	.01	--	--	--	--
APR												
06...	56	11400	.11	--	--	.88	.20	--	--	210	38700	59
MAY												
10...	75	1080	.39	--	--	.56	.14	--	--	79	1140	98
JUN												
06...	77	491	.01	--	--	.64	.11	--	15	34	217	91
15...	--	--	.04	.01	.48	.49	.07	.02	--	--	--	--
JUL												
12...	--	--	.06	.03	.55	.58	.08	.02	--	--	--	--
21...	92	570	.36	--	--	.74	.27	--	5.4	22	123	99
AUG												
09...	81	411	.29	.01	.67	.68	.12	.05	--	32	162	--
SEP												
14...	77	805	.23	.03	.48	.51	.19	.04	--	30	288	94

02449000 TOMBIGBEE RIVER AT GAINESVILLE, AL--Continued

WATER-QUALITY RECORDS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)
NOV											
16...	2	1	1	3	0	3	10	10	0	0	0
MAR											
11...	--	--	--	--	--	3	--	--	0	--	--
JUN											
06...	--	--	2	1	1	0	10	10	0	0	0
JUL											
21...	--	--	1	0	0	0	<10	<10	0	0	0

DATE	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	SUS-PENDED MAN-GANESE (MN) (UG/L)
NOV											
16...	0	18	14	4	2900	370	37	3	34	220	160
MAR											
11...	0	--	--	9	--	220	--	--	35	--	--
JUN											
06...	0	3	2	1	1400	130	--	0	22	120	110
JUL											
21...	0	3	3	0	900	70	--	0	6	80	70

DATE	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
NOV										
16...	60	.1	.0	.1	0	0	0	60	60	0
MAR										
11...	--	--	--	--	--	--	--	--	--	--
JUN										
06...	10	--	--	.0	--	--	0	20	0	20
JUL										
21...	10	--	--	.0	--	--	0	10	10	0

02449000 TOMBIGBEE RIVER AT GAINESVILLE, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE	OCT 19,76		NOV 16,76		DEC 14,76		JAN 25,77		MAY 10,77	
TIME	1045		1010		1030		1055		1145	
TOTAL CELLS/ML	20000		4000		3800		1200		5000	
DIVERSITY: DIVISION	1.1		1.5		1.4		1.3		1.4	
.CLASS	1.1		1.5		1.4		1.3		1.4	
..ORDER	1.2		1.9		1.4		1.6		1.8	
...FAMILY	1.6		2.7		1.9		2.4		3.0	
....GENUS	2.6		3.1		2.2		0.0		3.3	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...COELASTRACEAE										
....COELASTRUM	--	-	--	-	--	-	--	-	380	8
...MICRACTINIACEAE										
....GOLENKINIA	--	-	100	3	54	1	--	-	--	-
....MICRACTINIUM	1200	6	470	12	320	8	470#	40	1100#	22
...OOCYSTACEAE										
....ANKISTRODESMUS	510	3	52	1	--	-	69	6	140	3
....CHODATELLA	--	-	*	0	--	-	--	-	--	-
....DICTYOSPHAERIUM	1600	8	210	5	--	-	--	-	320	6
....KIRCHNERIELLA	--	-	--	-	--	-	17	1	*	0
....OOCYSTIS	100	1	--	-	--	-	--	-	--	-
....TETRAEDRON	200	1	--	-	--	-	--	-	--	-
...SCENEDESMACEAE										
....ACTINASTRUM	200	1	--	-	--	-	--	-	--	-
....CRUCIGENIA	410	2	--	-	--	-	--	-	64	1
....SCENEDESMUS	820	4	1100#	29	970#	25	170	15	950#	19
....TETRASTRUM	410	2	--	-	210	6	--	-	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	100	1	*	0	--	-	17	1	--	-
...PHACOTACEAE										
....PTEROMONAS	--	-	--	-	--	-	17	1	--	-
..ZYGNEMATALES										
...DESMIDIACEAE										
....ARTHRODESMUS	--	-	--	-	--	-	--	-	*	0
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	5400#	27	470	12	54	1	35	3	220	4
....MELOSIRA	8000#	40	310	8	--	-	--	-	160	3
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	--	-	--	-	--	-	--	-	32	1
...CYMBELLACEAE										
....AMPHORA	--	-	--	-	54	1	--	-	--	-
....CYMBELLA	--	-	--	-	54	1	--	-	32	1
...FRAGILARIACEAE										
....SYNEDRA	--	-	--	-	54	1	--	-	*	0
...GOMPHONEMATACEAE										
....GOMPHONEMA	--	-	*	0	--	-	--	-	--	-
...NAVICULACEAE										
....GYROSIGMA	--	-	*	0	54	1	--	-	*	0
....NAVICULA	--	-	*	0	--	-	--	-	32	1
....NEIDIUM	--	-	*	0	--	-	--	-	--	-
...NITZSCHIACEAE										
....NITZSCHIA	100	1	310	8	110	3	190#	16	290	6
CYANOPHYTA (BLUE-GREEN ALGAE)										
.MYXOPHYCEAE										
..CHROOCOCCALES										
...CHROOCOCCACEAE										
....ANACYSTIS	820	4	700#	18	--	-	--	-	950#	19
..OSCILLATORIALES										
...OSCILLATORIACEAE	--	-	--	-	--	-	190#	16	--	-
....OSCILLATORIA	--	-	100	3	1900#	49	--	-	220	4
EUGLENOPHYTA (EUGLENOIDS)										
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....EUGLENA	--	-	--	-	--	-	--	-	*	0
....TRACHELOMONAS	--	-	--	-	--	-	--	-	32	1

02449000 TOMBIGBEE RIVER AT GAINESVILLE, AL--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	152	134	108	105	---	---	157	145	---	---	114	97
2	150	126	129	103	---	---	152	140	---	---	102	96
3	127	122	169	140	---	---	180	151	---	---	107	96
4	126	121	171	137	---	---	199	182	---	---	122	98
5	131	124	137	113	144	129	191	168	---	---	106	97
6	139	131	113	107	139	129	---	---	---	---	95	90
7	142	137	108	104	140	134	---	---	---	---	89	81
8	140	133	104	100	148	128	---	---	---	---	81	79
9	132	116	100	99	141	133	---	---	---	---	78	74
10	116	108	100	99	147	138	---	---	---	---	74	71
11	111	108	101	100	172	142	177	153	---	---	75	68
12	120	111	100	98	192	157	157	131	---	---	81	74
13	122	115	98	96	---	---	130	121	---	---	84	82
14	130	123	99	98	---	---	147	122	123	114	86	83
15	132	127	99	94	---	---	156	147	123	115	87	85
16	145	131	112	90	---	---	161	149	123	113	86	83
17	132	126	95	92	---	---	157	139	124	116	84	82
18	127	119	95	93	---	---	142	130	126	113	84	82
19	121	116	97	94	---	---	149	132	122	96	84	82
20	116	116	99	95	---	---	168	142	106	101	84	79
21	116	114	105	100	---	---	168	152	113	97	106	82
22	120	114	107	104	---	---	165	151	114	106	112	104
23	125	121	---	---	---	---	---	---	133	111	112	106
24	127	126	108	105	---	---	---	---	136	125	119	111
25	134	128	114	110	---	---	91	70	146	124	124	108
26	137	133	117	111	---	---	---	---	148	120	149	120
27	136	130	112	107	---	---	---	---	135	122	154	107
28	133	124	113	106	---	---	---	---	131	106	126	104
29	160	121	110	108	---	---	---	---	---	---	135	122
30	174	139	---	---	---	---	---	---	---	---	134	115
31	140	107	---	---	---	---	---	---	---	---	126	112
MONTH	174	107	171	90	192	128	199	70	148	96	154	68

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	151	121	125	112	149	119	139	128	158	151	175	159
2	118	99	123	113	139	116	130	127	157	149	165	150
3	99	82	118	111	138	123	133	130	155	151	157	145
4	81	79	135	114	132	122	134	131	160	146	157	156
5	---	---	123	110	146	130	147	135	162	156	168	164
6	84	75	123	113	133	124	148	140	165	140	---	---
7	79	74	122	112	138	123	140	138	140	133	198	162
8	75	73	161	115	128	122	144	140	142	131	197	182
9	77	74	149	126	129	118	150	143	152	78	181	150
10	80	77	145	126	121	118	157	150	83	76	157	145
11	83	80	125	115	120	118	160	147	88	81	161	152
12	85	82	144	121	122	119	167	71	89	69	211	126
13	87	78	165	141	128	122	73	68	155	148	136	116
14	92	81	142	129	128	126	85	72	159	151	126	109
15	103	90	142	131	126	124	141	81	162	156	127	110
16	131	104	142	124	128	125	138	109	164	160	153	122
17	133	120	144	125	129	127	125	114	164	156	162	150
18	123	114	149	140	130	128	114	92	156	148	151	112
19	132	115	149	141	138	130	117	99	155	148	124	118
20	129	111	142	117	147	134	111	91	162	154	118	110
21	119	111	119	114	157	140	97	87	168	157	112	106
22	149	115	119	114	165	138	92	81	169	155	116	104
23	147	129	116	112	169	140	85	77	176	162	103	91
24	143	132	119	112	157	133	81	71	175	162	117	99
25	143	132	121	114	178	157	90	81	184	170	138	117
26	143	122	125	116	174	153	92	68	183	169	140	115
27	137	115	120	115	153	136	100	90	207	177	153	127
28	134	111	129	115	136	131	103	95	233	207	152	133
29	128	111	131	122	132	129	135	98	229	187	136	117
30	124	111	129	124	136	129	154	136	187	168	188	140
31	---	---	141	130	---	---	160	153	178	167	---	---
MONTH	151	73	165	110	178	116	167	68	233	69	211	91

02449000 TOMBIGBEE RIVER AT GAINESVILLE, AL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	23.5	23.0	12.5	12.5	7.0	6.0	5.0	4.0	3.5	3.5	12.5	12.0
2	23.0	22.5	12.5	11.5	6.0	5.0	4.0	3.0	3.5	3.0	11.5	11.0
3	23.0	22.0	12.0	11.0	5.0	5.0	3.0	3.0	3.5	3.0	11.0	10.5
4	23.5	22.0	11.5	11.0	5.0	5.0	3.0	2.5	4.5	3.5	12.0	11.0
5	23.0	22.5	11.0	10.5	5.5	5.0	3.0	3.0	5.0	4.0	12.5	12.0
6	23.0	22.0	10.5	10.0	6.0	5.5	3.5	3.0	5.0	4.5	12.5	12.0
7	22.0	21.5	10.5	9.5	6.5	6.0	4.0	3.5	5.0	4.5	12.0	11.5
8	21.0	19.5	10.0	9.5	6.5	6.0	4.0	3.5	5.0	4.5	11.5	11.5
9	19.5	18.5	10.0	9.5	6.0	5.5	4.5	4.0	5.0	4.5	11.5	11.5
10	18.5	18.0	10.0	9.5	6.0	5.5	4.5	4.0	6.0	5.0	11.5	11.5
11	18.0	17.5	10.5	10.0	7.0	6.0	4.0	3.0	6.0	5.5	12.0	11.5
12	18.5	17.5	10.0	9.5	8.0	7.0	3.0	2.5	6.5	6.0	13.0	12.0
13	18.5	18.0	9.5	9.0	8.0	8.0	2.0	1.5	7.5	6.5	13.5	12.5
14	19.0	18.0	9.0	8.5	9.0	8.0	2.0	1.5	8.0	7.5	14.5	13.5
15	19.0	18.5	8.5	8.0	8.0	8.0	3.0	2.0	8.5	8.0	15.0	14.5
16	19.0	18.5	8.0	8.0	8.0	7.5	3.5	3.0	8.0	7.5	15.5	15.0
17	18.5	18.0	8.5	8.0	7.5	7.5	3.5	3.0	8.0	7.5	16.0	15.5
18	18.0	17.0	8.5	8.0	7.5	7.5	3.0	2.0	9.0	7.5	16.5	16.0
19	17.5	16.5	8.5	8.0	8.0	7.5	2.0	1.0	10.0	9.0	16.5	16.5
20	17.0	16.0	9.5	8.5	8.0	7.5	1.0	1.0	9.5	9.0	16.5	16.0
21	16.0	15.5	9.5	9.0	7.5	6.5	1.0	0.5	9.5	8.5	16.0	15.5
22	15.5	14.5	9.5	9.0	6.5	6.0	1.5	1.0	9.5	8.5	15.5	14.5
23	15.0	14.5	9.0	8.5	6.0	5.0	1.5	1.5	11.5	9.5	14.5	14.0
24	15.5	15.0	8.5	8.0	5.0	4.0	2.5	1.5	12.0	11.5	14.0	13.5
25	16.0	15.5	9.0	8.0	4.0	3.5	3.0	2.5	12.0	11.5	14.5	14.0
26	16.0	15.5	9.5	9.0	4.5	4.0	3.0	3.0	12.5	12.0	15.0	14.5
27	15.5	14.5	10.5	9.5	4.5	4.0	4.0	3.0	13.0	12.5	16.0	15.0
28	14.0	13.0	10.5	10.0	4.5	4.5	4.5	4.0	13.0	12.5	16.5	16.0
29	13.0	12.5	10.0	8.5	5.0	4.5	4.5	4.5	---	---	16.5	16.5
30	12.5	12.5	8.5	7.5	5.0	5.0	4.5	4.0	---	---	17.5	16.5
31	12.5	12.5	---	---	5.0	5.0	4.0	3.5	---	---	18.0	17.5
MONTH	23.5	12.5	12.5	7.5	9.0	3.5	5.0	0.5	13.0	3.0	18.0	10.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	18.0	17.0	20.0	19.5	27.5	27.0	31.5	30.0	27.5	27.0	30.0	29.5
2	18.0	17.0	20.0	19.5	27.5	27.0	30.5	29.5	28.0	27.5	30.0	29.5
3	18.5	18.0	19.5	19.0	28.0	27.0	31.0	30.0	28.0	27.0	30.0	29.0
4	18.0	18.0	20.0	19.5	28.0	27.0	31.0	30.0	27.5	27.5	29.5	29.5
5	18.0	17.0	21.0	20.0	28.5	27.5	33.5	30.5	27.5	27.0	29.5	29.0
6	17.0	16.0	22.0	21.0	29.5	28.0	31.5	31.0	28.5	27.5	29.0	28.0
7	16.0	16.0	23.0	22.0	28.5	27.5	32.5	31.0	29.5	28.5	27.5	25.0
8	16.5	16.0	23.5	23.0	27.5	27.0	32.5	31.0	30.5	29.0	25.0	25.0
9	16.5	16.0	24.0	23.5	27.0	26.5	32.0	30.5	31.0	30.0	25.0	25.0
10	16.5	16.5	23.5	23.0	27.0	26.5	31.0	30.0	31.0	30.0	25.5	25.0
11	17.0	16.5	22.5	22.0	28.0	27.0	30.0	30.0	30.5	30.0	26.5	25.5
12	17.5	17.0	23.0	22.0	28.5	28.0	29.0	29.0	30.5	30.0	26.5	26.0
13	18.0	17.5	22.5	22.0	29.5	28.5	29.0	28.5	30.5	30.0	26.5	26.5
14	18.5	18.0	23.0	22.0	29.0	28.5	29.5	28.5	31.0	30.0	26.5	26.5
15	19.0	18.5	23.5	22.5	29.0	28.5	29.5	29.0	31.5	30.5	26.5	26.5
16	19.5	19.0	24.5	22.5	29.5	28.5	29.5	28.5	31.5	30.5	26.0	25.0
17	20.0	19.5	24.5	23.5	30.0	28.5	30.5	29.0	31.5	30.5	26.0	25.5
18	20.0	20.0	25.0	24.0	30.0	29.0	30.0	29.5	31.0	30.5	25.5	25.0
19	20.5	20.0	25.5	24.5	29.5	28.5	29.5	29.0	30.5	29.5	26.0	26.0
20	21.0	20.5	26.0	25.0	29.0	28.0	29.0	28.0	30.0	29.5	26.0	26.0
21	20.5	20.0	26.5	25.5	29.5	28.0	29.5	28.5	29.5	29.0	26.0	25.5
22	20.0	19.5	26.5	26.0	29.5	28.5	30.0	29.0	29.5	29.0	26.0	25.5
23	19.5	19.0	26.5	25.5	31.0	29.0	30.0	29.5	29.5	29.0	26.0	25.5
24	19.5	19.0	26.0	25.5	30.5	29.5	30.5	30.0	30.0	29.5	26.0	25.5
25	19.5	19.0	26.0	25.5	30.0	29.5	30.5	30.0	30.5	30.0	26.0	25.5
26	19.0	18.5	26.0	25.5	30.5	29.5	30.0	28.0	31.0	30.0	26.0	25.5
27	18.5	18.0	26.0	25.5	30.5	30.0	28.5	28.0	30.5	30.0	25.5	25.0
28	18.5	18.0	26.5	26.0	30.5	30.0	28.5	28.5	30.0	29.5	25.0	24.5
29	19.0	18.5	27.0	26.0	30.5	30.0	28.5	26.5	30.0	29.5	25.0	24.5
30	20.0	19.0	27.5	26.5	32.0	30.0	26.5	26.0	30.0	29.5	24.5	23.0
31	---	---	27.5	27.0	---	---	27.0	26.5	30.0	29.5	---	---
MONTH	21.0	16.0	27.5	19.0	32.0	26.5	33.5	26.0	31.5	27.0	30.0	23.0

02449245 BRUSH CREEK NEAR EUTAW, AL

LOCATION.--Lat 32°49"51", long 87°58'56", in N½ sec. 3, T. 21 N., R. 1 E., Greene County, Hydrologic Unit 03160106, near right bank on downstream side of county highway bridge, 1.3 mi (2.1 km) downstream from Pippan Creek, 2.2 mi (3.5 km) upstream from Dry Creek, 5.5 mi (8.8 km) west of Eutaw, and 7.2 mi (11.6 km) upstream from mouth.

DRAINAGE AREA.--42.7 mi^2 (110.6 km^2).

PERIOD OF RECORD.--Annual maximums, water years 1971-75. June 1975 to current year.

GAGE.--Water-stage recorder. Datum of gage is 105.92 ft (32.284 m) above mean sea level. Oct. 5, 1970 to May 31, 1975, crest-stage gage at same site and datum.

REMARKS.--Records good except those for periods of no gage-height record, Jan. 11 to Feb. 15 and June 18 to July 28, which are poor. Records of specific conductance and water temperature for the water year 1977 are published under miscellaneous water-quality sites in this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,650 ft^3/s (132 m^3/s) Mar. 21, 1977, gage height, 20.61 ft (6.282 m); minimum, 0.34 ft^3/s (0.010 m^3/s) Sept. 5, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,700 ft^3/s (48.1 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 9	1700	1900	53.8	17.24	5.255	Mar. 21	1800	*4650	132	*20.61	6.282
Mar. 12	1215	2430	68.8	18.05	5.502	Mar. 29	1945	2710	76.7	18.54	5.651

Minimum discharge, 0.34 ft^3/s (0.010 m^3/s) Sept. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	2.8	5.7	18	40	71	781	11	1.5	.80	7.3	.46
2	1.8	2.7	4.1	15	35	58	502	10	1.5	.70	21	.42
3	1.3	2.5	3.4	39	33	54	307	9.5	1.4	.60	5.1	.42
4	1.1	2.1	3.0	37	31	829	681	17	1.3	.60	4.9	.42
5	.70	2.1	2.5	25	29	240	963	17	1.1	.50	3.3	.50
6	1.4	2.0	2.3	33	27	1300	217	12	1.1	.45	2.3	2.5
7	1.7	2.2	9.3	67	25	316	142	10	1.0	.40	1.9	26
8	1.5	2.3	10	30	25	155	111	8.7	.82	.40	1.6	12
9	1.3	2.3	5.4	1000	23	110	96	13	.85	.50	1.5	4.2
10	1.2	2.5	4.0	670	23	91	78	10	.80	.80	1.3	2.3
11	.94	2.2	3.6	150	22	83	65	6.4	.77	.70	1.1	1.7
12	.94	2.5	4.0	130	25	1350	55	5.4	.77	.60	1.0	1.2
13	.70	2.4	70	120	30	630	48	4.4	1.0	2.0	.85	1.0
14	.70	5.2	40	200	27	174	42	3.9	1.2	2.5	.77	1.2
15	.66	18	30	350	25	118	36	3.5	1.6	2.0	.70	13
16	.66	8.1	20	150	23	93	32	3.3	1.3	1.0	.70	27
17	.70	4.4	15	110	22	76	28	2.9	1.2	1.0	.70	11
18	.62	3.0	13	80	21	68	25	2.6	1.2	1.5	.70	5.6
19	.66	2.4	10	70	21	57	23	2.5	1.5	2.0	.66	3.5
20	.62	2.5	30	55	19	58	21	2.4	2.0	2.5	.66	2.5
21	.62	4.7	50	50	18	1630	20	2.1	1.7	1.5	.66	1.9
22	.62	4.9	40	45	17	1560	30	2.0	1.4	1.0	.58	1.7
23	.62	3.3	25	40	202	228	56	2.0	1.0	.80	.58	1.3
24	.62	3.9	20	80	669	144	36	2.0	.90	.70	.58	1.2
25	1.4	3.2	30	170	134	104	26	1.8	2.5	1.0	.58	1.2
26	1.4	2.2	130	110	85	82	21	1.8	2.0	3.0	.62	11
27	1.4	2.4	70	90	269	69	18	1.7	1.6	10	.62	29
28	1.4	10	30	70	102	223	15	1.6	1.3	50	.62	9.7
29	1.4	27	24	60	---	1180	13	1.6	1.0	57	.62	51
30	2.0	10	19	50	---	1530	12	1.8	.90	16	.54	29
31	2.1	---	19	45	---	331	---	1.6	---	40	.50	---
TOTAL	34.88	145.8	742.3	4159	2022	13012	4500	175.5	38.21	202.55	64.54	253.92
MEAN	1.13	4.86	23.9	134	72.2	420	150	5.66	1.27	6.53	2.08	8.46
MAX	2.1	27	130	1000	669	1630	963	17	2.5	57	21	51
MIN	.62	2.0	2.3	15	17	54	12	1.6	.77	.40	.50	.42
CFSM	.02	.10	.51	2.84	1.53	8.90	3.18	.12	.03	.14	.04	.18
IN.	.03	.11	.59	3.28	1.59	10.25	3.55	.14	.03	.16	.05	.20

CAL YR 1976 TOTAL 28251.02 MEAN 77.2 MAX 3120 MIN .57 CFSM 1.64 IN 22.27
WTR YR 1977 TOTAL 25350.70 MEAN 69.5 MAX 1630 MIN .40 CFSM 1.47 IN 19.98

02450000 MULBERRY FORK NEAR GARDEN CITY, AL

LOCATION.--Lat 33°59'42", long 86°44'56", in NE¼ sec. 16, T. 12 S., R. 2 W., Blount County, Hydrologic Unit 03160109, on left bank near downstream side of bridge on U.S. Highway 31 (old), 1,000 ft (305 m) downstream from Louisville & Nashville Railroad bridge, 1 mi (1.6 km) southwest of Garden City, 5.5 mi (8.8 km) downstream from Mud Creek, and at mile 79.2 (127.4 km).

DRAINAGE AREA.--368 mi^2 (953 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1928 to current year. Monthly discharge only for period April to June 1932 published in WSP 1304. Prior to 1941, published as "Mulberry Fork of Black Warrior River."

REVISED RECORD.--WSP 1384: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 380.54 ft (115.989 m) above mean sea level. Prior to Dec. 5, 1939 nonrecording gage at same site and datum.

REMARKS.--Water-discharge record good.

AVERAGE DISCHARGE.--49 years, 673 ft^3/s) 19.06 m^3/s), 24.84 in/yr (631 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 46,600 ft^3/s (1,320 m^3/s) Feb. 4, 1936, gage height, 24.0 ft (7.32 m) from floodmarks; minimum observed, 3 ft^3/s (0.085 m^3/s) Sept. 28-30, Oct. 1, 3-6, 1931, gage height, 1.88 ft (0.573 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 13,000 ft^3/s (368 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 4	1600	15200	430	12.88	3.926	Mar. 30	1600	29000	821	17.76	5.413
Mar. 12	1800	*35200	997	*19.62	5.950	Apr. 4	2300	34900	988	19.45	5.928

Minimum daily discharge, 13 ft^3/s (0.37 m^3/s) Aug. 14-16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	97	209	1600	420	1700	2520	193	67	24	24	15
2	55	77	180	1190	400	1300	1960	190	66	27	19	16
3	47	66	154	1020	370	4500	8960	169	57	34	16	15
4	41	59	140	864	350	9720	13900	169	49	27	18	15
5	35	54	156	721	330	4150	13800	175	46	22	21	16
6	38	51	152	642	310	4600	3770	154	41	46	18	16
7	52	48	124	546	300	3130	2540	135	37	18	18	3380
8	48	44	140	477	280	2260	1880	122	40	19	19	825
9	44	42	140	636	270	1720	1430	112	38	23	17	255
10	46	43	103	903	260	1370	1100	101	34	26	15	477
11	42	46	636	668	250	1260	903	94	31	27	15	335
12	39	54	1490	550	290	17600	749	89	30	27	14	142
13	37	67	694	700	350	7850	623	83	28	21	14	986
14	37	62	580	900	330	3200	534	78	27	19	13	546
15	36	71	505	1200	300	2270	450	75	27	20	13	694
16	34	83	1270	1000	280	1700	380	70	31	20	13	611
17	32	80	1270	800	260	1300	331	64	32	63	17	819
18	30	72	903	700	250	1090	293	64	30	38	45	434
19	28	74	674	600	240	890	268	63	37	23	60	297
20	27	67	540	550	230	883	237	59	32	18	31	249
21	30	66	648	500	220	903	217	59	28	18	22	206
22	32	64	444	470	210	1460	286	169	25	19	19	169
23	30	63	580	450	210	924	708	289	28	62	16	140
24	30	60	1340	450	3500	785	674	142	25	34	47	120
25	40	57	1180	500	2500	661	414	99	26	24	29	144
26	50	58	3340	650	1700	551	323	106	24	33	46	1190
27	60	62	6550	600	3000	477	272	323	24	36	70	857
28	55	177	2080	550	2500	642	240	144	28	18	31	1320
29	50	347	1390	500	---	1120	217	108	28	24	22	742
30	51	249	1740	470	---	15500	201	87	29	55	18	838
31	84	---	2320	450	---	4770	---	72	---	32	15	---
TOTAL	1326	2460	31672	21857	19910	100286	60180	3857	1045	897	755	15869
MEAN	42.8	82.0	1022	705	711	3235	2006	124	34.8	28.9	24.4	529
MAX	84	347	6550	1600	3500	17600	13900	323	67	63	70	3380
MIN	27	42	103	450	210	477	201	59	24	18	13	15
CFSM	.12	.22	2.78	1.92	1.93	8.79	5.45	.34	.10	.08	.07	1.44
IN.	.13	.25	3.20	2.21	2.01	10.14	6.08	.39	.11	.09	.08	1.60

CAL YR 1976 TOTAL 242878 MEAN 664 MAX 8780 MIN 27 CFSM 1.80 IN 24.55
WTR YR 1977 TOTAL 260114 MEAN 713 MAX 17600 MIN 13 CFSM 1.94 IN 26.29

02450000 MULBERRY FORK NEAR GARDEN CITY, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1972 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965, 1966, 1967, 1968, and 1971.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
MAR											
31...	3800	50	6.3	16.0	10.5	14	6	3.4	1.2	2.3	.3
AUG											
31...	14	88	7.2	27.0	5.4	23	2	6.4	1.7	3.8	.3

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)
MAR											
31...	1.3	10	0	5.0	2.2	.0	2.0	27	277	1.0	4.6
AUG											
31...	5.5	26	0	9.0	4.2	.0	1.8	49	1.85	.76	3.4

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
MAR										
31...	1	<1	ND	1	90	1	40	<.2	40	10
AUG										
31...	--	--	--	--	10	--	--	--	--	--

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT			
12...	38	--	15.0
JAN			
26...	669	73	5.0

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
APR			
26...	326	79	16.5
AUG			
18...	30	--	27.0

02450180 MULBERRY FORK NEAR ARKADELPHIA, AL

LOCATION.--Lat 33°52'00", long 86°44'56", in NE¼NE¼NE¼ sec. 35, T. 13 S., R. 4 W, Blount County, Hydrologic Unit 03160109, on left bank 200 ft (61 m) upstream from county road, 4 mi (6.4 km) south of Arkadelphia, and at mile 452.1 (727 km).

DRAINAGE AREA.--487 mi^2 (1,261 km^2).

PERIOD OF RECORD.--October 1976 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 275 ft (83.8 m) from topographic map.

REMARKS.--Records good.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,000 ft^3/s (85.0 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 10	1000	9480	268	22.85	6.965	Mar. 13	1200	*23400	663	*34.28	10.449
Feb. 24	1400	6290	178	18.78	5.724	Mar. 31	1100	14800	419	27.91	8.507
Feb. 27	1700	4220	120	14.55	4.435	Apr. 5	1600	23300	660	34.21	10.427
Mar. 4	2400	13600	385	26.89	8.196	Sept.26	0200	3950	112	13.88	4.231

Minimum daily discharge, 13 ft^3/s (0.368 m^3/s) Aug. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	88	103	319	699	369	1900	3910	305	77	36	42	24
2	73	107	288	495	348	1510	2090	296	65	34	30	22
3	67	86	273	518	328	1320	5220	285	65	28	27	22
4	65	73	259	780	328	8250	10500	273	61	33	23	20
5	57	67	246	743	325	12200	20900	273	54	36	19	20
6	54	63	243	721	308	5300	15700	256	51	28	21	18
7	52	59	263	1560	280	4070	4350	224	45	23	23	1620
8	65	57	259	1470	263	2540	2480	203	40	21	20	1910
9	71	54	227	2580	253	1940	2020	184	42	23	18	299
10	67	51	189	8310	249	1610	1650	157	43	25	18	137
11	65	54	195	3380	243	1400	1430	146	40	25	18	473
12	52	67	1260	1960	246	7860	1230	140	38	25	18	132
13	40	69	1970	1580	270	21500	1040	129	36	26	15	438
14	39	90	1260	2060	273	13400	887	119	35	28	14	1060
15	38	105	1080	2160	246	3390	746	112	30	22	13	669
16	38	105	1010	1810	227	2070	618	107	30	21	15	950
17	36	110	763	1430	212	1740	532	101	33	21	16	1050
18	35	103	599	1220	203	1400	476	92	42	61	17	529
19	34	96	493	1020	203	1200	443	88	39	48	38	280
20	29	96	1010	832	195	1100	414	81	39	35	61	215
21	29	92	1430	724	186	1000	394	73	40	24	39	178
22	34	92	977	599	189	1000	423	88	36	20	25	143
23	38	94	727	512	296	1200	749	237	31	20	19	119
24	38	96	575	794	5040	1100	1110	197	30	52	14	105
25	43	96	718	1140	2950	900	691	124	52	46	33	471
26	51	103	1940	843	1780	700	482	110	36	34	26	2620
27	107	112	1440	718	3230	650	410	330	34	38	40	1150
28	92	178	1150	628	2780	600	366	203	30	51	56	1400
29	67	552	911	524	---	600	345	181	30	39	26	980
30	61	460	699	430	---	2000	328	122	31	34	26	1180
31	71	---	655	398	---	10900	---	96	---	75	24	---
TOTAL	1696	3490	23428	42638	21820	116350	81934	5332	1255	1032	794	18234
MEAN	54.7	116	756	1375	779	3753	2731	172	41.8	33.3	25.6	608
MAX	107	552	1970	8310	5040	21500	20900	330	77	75	61	2620
MIN	29	51	189	398	186	600	328	73	30	20	13	18
CFSM	.11	.24	1.55	2.82	1.60	7.71	5.61	.35	.09	.07	.05	1.25
IN.	.13	.27	1.79	3.26	1.67	8.89	6.26	.41	.10	.08	.06	1.39

WTR YR 1977 TOTAL 318003 MEAN 871 MAX 21500 MIN 13 CFSM 1.79 IN 24.29

02450250 SIPSEY FORK NEAR GRAYSON, AL

LOCATION.--Lat 34°17'07", long 87°23'56", in N½ sec. 8, T. 9 S., R. 8 W., Winston County, Hydrologic Unit 03160110, 0.1 mi (0.2 km) downstream from bridge on Cranal Road, 0.5 mi (0.8 km) downstream from Borden Creek, 4.5 mi (7.2 km) west of Grayson, and 14 mi (22.5 km) northeast of Haleyville.

DRAINAGE AREA.--91.3 mi^2 (236 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 540 ft (165 m) from topographic map.

REMARKS.--Water-discharge record good.

AVERAGE DISCHARGE.--11 years, 170 ft^3/s (4.814 m^3/s), 25.29 in/yr (642 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,300 ft^3/s (575 m^3/s) Mar. 16, 1973, gage height, 44.27 ft (13.493 m); minimum, 1.8 ft^3/s (0.051 m^3/s) Aug. 19-21, 1972.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base 4,000 ft^3/s (113 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 24	0345	4930	140	20.46	6.236	Apr. 4	1900	5580	158	21.99	6.703
Mar. 4	0830	*11800	334	*33.54	10.223						

Minimum, 2.2 ft^3/s (0.062 m^3/s) Sept. 3-6, gage height 1.00 ft (0.305 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.1	41	77	100	81	365	151	53	13	3.5	5.0	2.6
2	8.0	30	58	93	76	247	182	45	10	3.4	4.6	2.4
3	6.0	25	46	98	74	288	1290	42	9.5	3.3	4.2	2.4
4	7.3	22	39	107	73	7770	4180	42	8.9	3.3	3.8	2.3
5	6.8	19	34	114	69	1300	1940	41	8.3	3.2	4.0	2.3
6	28	18	31	136	56	800	712	35	8.3	3.1	4.8	2.4
7	24	17	31	396	49	400	437	31	10	2.9	4.0	22
8	15	16	29	258	45	300	296	30	9.3	2.8	3.5	10
9	13	15	25	1030	46	250	219	26	8.1	3.5	3.3	6.3
10	12	15	23	1010	46	210	177	23	7.8	4.2	3.1	14
11	9.9	15	24	407	44	200	145	21	7.4	3.8	3.1	17
12	8.9	16	76	247	59	2500	121	19	6.9	4.6	3.7	7.6
13	8.5	15	99	192	75	1000	108	18	7.1	5.5	3.5	5.7
14	8.1	16	82	283	60	501	99	17	23	9.3	3.0	5.0
15	8.1	17	74	322	53	377	90	16	10	6.1	2.8	7.8
16	8.5	17	63	241	47	267	80	16	8.1	4.4	4.0	13
17	9.1	16	52	183	45	214	69	14	7.8	5.8	7.3	9.5
18	9.7	15	45	166	47	194	62	13	7.6	7.4	6.3	7.6
19	11	15	40	131	47	158	58	13	6.9	5.7	5.1	7.1
20	14	16	90	116	44	161	51	13	6.3	5.0	4.1	7.1
21	17	18	108	100	42	137	52	12	6.1	4.7	3.6	6.6
22	16	18	86	88	41	125	150	12	5.7	4.3	3.3	5.5
23	16	16	76	81	280	109	404	12	5.2	4.3	3.1	5.0
24	16	15	62	145	2580	104	283	13	4.8	4.3	3.0	4.6
25	46	15	337	162	644	100	186	13	4.3	5.2	2.9	6.0
26	63	18	526	151	383	92	134	12	4.2	8.9	3.0	27
27	29	54	233	147	1280	90	104	12	4.2	6.9	3.0	37
28	21	154	166	131	605	110	87	12	4.0	6.3	3.0	49
29	18	249	118	103	---	137	74	12	3.7	11	3.0	20
30	30	109	94	94	---	174	62	11	3.6	7.1	2.9	88
31	70	---	116	89	---	166	---	13	---	5.7	2.7	---
TOTAL	567.0	1042	2960	6921	6991	18846	12003	662	230.1	159.5	116.7	402.8
MEAN	18.3	34.7	95.5	223	250	608	400	21.4	7.67	5.15	3.76	13.4
MAX	70	249	526	1030	2580	7770	4180	53	23	11	7.3	88
MIN	6.0	15	23	81	41	90	51	11	3.6	2.8	2.7	2.3
CFSM	.20	.38	1.05	2.44	2.74	6.66	4.38	.23	.08	.06	.04	.15
IN.	.23	.42	1.21	2.82	2.85	7.68	4.89	.27	.09	.06	.05	.16

CAL YR 1976 TOTAL 42853.2 MEAN 117 MAX 1090 MIN 4.9 CFSM 1.28 IN 17.46
WTR YR 1977 TOTAL 50901.1 MEAN 139 MAX 7770 MIN 2.3 CFSM 1.52 IN 20.74

02450250 SIPSEY FORK NEAR GRAYSON, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1966 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM .7UM-MF (COL./100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)
OCT										
07...	217	116	6.9	15.0	8.9	1020	390	380	55	2
NOV										
08...	18	116	6.4	5.0	11.3	--	--	--	--	--
DEC										
02...	37	121	7.0	3.0	13.4	700	31	47	55	6
JAN										
18...	141	82	7.3	2.0	12.0	--	--	--	--	--
FEB										
15...	32	94	7.4	6.0	12.4	35	5	7	43	7
MAR										
14...	555	58	6.8	10.0	11.8	--	--	--	--	--
APR										
15...	60	78	7.3	16.0	9.8	--	--	--	39	4
MAY										
18...	14	92	7.6	18.5	9.2	--	--	--	--	--
JUN										
10...	5.4	83	7.4	20.0	7.3	127	243	206	35	4
JUL										
28...	6.3	48	7.1	24.5	7.1	150	100	250	20	1

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)
OCT										
07...	19	1.8	1.3	.1	1.4	65	0	3.4	1.6	.1
NOV										
08...	--	--	--	--	--	--	--	--	--	--
DEC										
02...	20	1.3	1.9	.1	.5	60	0	5.7	1.7	.0
JAN										
18...	--	--	--	--	--	--	--	--	--	--
FEB										
15...	15	1.3	1.5	.1	.6	44	0	5.1	1.4	.0
MAR										
14...	--	--	--	--	--	22	0	--	--	--
APR										
15...	13	1.5	1.2	.1	.9	42	0	3.9	1.6	.0
MAY										
18...	--	--	--	--	--	50	0	--	--	--
JUN										
10...	12	1.2	1.4	.1	1.0	38	0	3.1	1.4	.0
JUL										
28...	6.4	1.0	1.3	.1	1.2	23	0	4.4	1.3	.0

02450250 SIPSEY FORK NEAR GRAYSON, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
OCT										
07...	6.3	61	67	35.7	70	7	.01	.01	--	--
NOV										
08...	--	--	--	--	--	--	--	--	1	.05
DEC										
02...	6.4	69	68	6.93	--	--	.07	.00	3	.30
JAN										
18...	--	--	--	--	--	--	--	--	--	--
FEB										
15...	5.5	--	52	4.49	--	--	.05	.01	4	.35
MAR										
14...	--	--	--	--	--	--	--	--	16	24
APR										
15...	6.4	44	49	7.13	--	--	.02	.01	5	.81
MAY										
18...	--	--	--	--	--	--	--	--	4	.15
JUN										
10...	5.6	50	44	.73	47	2	.04	.01	3	.04
JUL										
28...	5.5	--	33	.56	--	--	.07	.01	1	.02

DATE	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT												
07...	1	100	0	20	0	630	26	60	.1	0	0	20
APR												
15...	0	0	0	10	0	260	10	30	.0	0	0	10
JUN												
10...	0	0	0	<10	1	610	4	100	.0	0	0	120

DATE	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)
OCT							
07...	<.9	<.4	2.6	.6	2.1	.5	.05
JUN							
10...	<.5	<.4	2.2	<.4	1.7	<.4	.08

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	POLY-CHLO-RINATED NAPH-THA-LENES (UG/L)	TOTAL PCB (UG/L)	PCB IN BOTTOM MA-TERIAL (UG/KG)	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOTAL CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DDT (UG/L)
OCT												
07...	.00	.0	0	.00	.0	.0	0	.00	.0	.00	.0	.00
JUN												
10...	.00	.0	0	.00	.0	.0	0	.00	.0	.00	.0	.00

02450250 SIPSEY FORK NEAR GRAYSON, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	DDT IN BOTTOM MATERIAL (UG/KG)	TOTAL DIAZINON (UG/L)	TOTAL DIELDRIN (UG/L)	DIELDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL ENDOSULFAN (UG/L)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL ETHION (UG/L)	TOTAL HEPTACHLOR (UG/L)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)	TOTAL HEPTACHLOR EPOXIDE (UG/L)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)
OCT												
07...	.0	.00	.00	.0	--	.00	.0	.00	.00	.0	.00	.0
JUN												
10...	.0	.00	.00	.0	.00	.00	.0	.00	.00	.0	.00	.0

DATE	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MATERIAL (UG/KG)	TOTAL MALATHION (UG/L)	TOTAL METHYL PARATHION (UG/L)	TOTAL PARATHION (UG/L)	TOTAL TOXAPHENE (UG/L)	TOTAL TRITHION (UG/L)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
OCT											
07...	.00	.0	.00	.00	.00	0	.00	0	.00	.00	.00
JUN											
10...	.00	.0	.00	.00	.00	0	.00	0	.00	.00	.00

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT			
14...	7.7	--	14.0
DEC			
09...	25	118	2.0
MAR			
17...	210	65	11.0
JUN			
29...	3.8	70	25.5
AUG			
04...	4.0	58	24.5

02453500 MULBERRY FORK NEAR CORDOVA, AL

LOCATION.--Lat 33°45'27", long 87°10'13", in NW¼ sec. 9, T. 15 S., R. 6 W., Walker County, Hydrologic Unit 03160109, near right bank on downstream side of pier of bridge on St. Louis and San Francisco Railroad, just downstream from Cane Creek, 0.1 mi (0.2 km) east of Cordova, and at mile 30.8 (49.6 km).

DRAINAGE AREA.--1,927 mi^2 (4,999 km^2).

PERIOD OF RECORD.--1890 to June 1897 fragmentary gage-height records collected by National Weather Service. June 1900 to December 1913 monthly discharge published in WSP 1304. January 1914 to December 1923 and August 1937 to September 1971 in files of Corps of Engineers. 1972 to current year.

GAGE.--Water-stage recorder. Datum of gage is 243.60 ft (74.249 m) above mean sea level. August 1937 to September 1961, nonrecording gage at present site and datum. Prior to August 1937, nonrecording gage at 8.2 ft (2.499 m) lower datum.

COOPERATION.--Records furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum, 39.80 ft (12.131 m) March 30, 1951; minimum, -9.35 ft (-2.850 m) several days in October 1909; maximum stage known, 46.5 ft (14.17 m) (present datum) April 1892 (information by National Weather Service).

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 19.76 ft (5.176 m) Apr. 5; minimum, 10.49 ft (3.170 m) Aug. 12.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.24	10.80	11.30	10.81	11.61	11.81	13.77	11.18	11.42	11.24	11.23	10.99
2	11.19	10.68	11.07	11.15	11.42	11.55	12.71	11.19	11.19	11.25	11.28	11.02
3	11.17	10.88	10.95	11.35	11.34	11.34	14.20	11.19	11.18	11.26	11.52	11.09
4	11.21	10.92	11.06	11.42	11.25	14.12	15.86	11.18	11.00	11.28	11.19	11.05
5	11.39	10.91	11.12	11.45	11.10	15.30	18.71	11.17	10.99	11.30	11.17	11.06
6	11.31	10.91	11.11	11.37	11.38	15.32	17.69	11.12	10.79	11.27	11.13	11.00
7	11.23	10.86	11.05	11.72	11.44	14.91	15.60	11.09	10.85	11.30	11.12	11.70
8	11.19	10.83	11.18	11.54	11.28	13.36	14.35	11.01	11.12	11.31	11.16	11.26
9	10.85	10.88	11.28	12.38	11.07	12.41	13.60	11.26	11.36	11.43	11.07	11.09
10	10.75	10.92	11.01	14.20	11.12	12.49	13.26	11.30	11.37	11.47	10.90	11.10
11	10.85	10.95	---	12.96	10.88	12.22	13.07	11.28	11.34	11.42	10.80	11.35
12	10.96	10.98	---	11.98	10.85	14.69	13.12	11.18	11.31	11.43	10.77	11.39
13	10.98	11.11	---	11.98	11.24	16.68	12.80	10.90	11.36	11.42	10.78	11.40
14	11.01	11.02	11.27	12.10	11.34	17.08	12.86	10.85	11.35	11.32	10.80	11.41
15	10.95	11.05	11.28	12.04	11.28	14.38	12.16	10.95	11.39	11.35	10.83	11.37
16	10.88	11.23	11.52	11.60	11.22	12.62	11.76	11.05	11.48	11.44	10.84	11.23
17	10.83	11.28	11.31	11.84	11.07	12.39	11.58	11.18	11.44	11.53	10.95	11.24
18	10.92	11.26	---	11.58	10.97	12.42	11.57	10.88	11.33	11.46	11.05	11.18
19	11.07	11.19	---	11.81	11.13	12.37	11.94	10.87	11.48	11.22	11.10	11.37
20	11.25	11.17	11.48	11.96	11.34	12.03	11.77	10.91	11.42	11.17	11.10	11.32
21	11.36	11.20	11.41	12.07	11.35	12.06	11.74	10.94	11.36	11.14	11.19	11.23
22	11.15	11.13	11.28	12.13	11.11	12.72	11.43	11.08	11.21	11.09	11.17	11.20
23	11.10	10.99	11.18	12.11	11.20	12.44	11.72	11.42	11.18	11.23	11.15	11.13
24	11.07	10.97	10.89	12.28	12.60	12.21	11.64	11.28	11.38	11.39	11.27	11.10
25	11.14	10.93	10.96	12.42	12.04	12.03	11.18	11.17	11.41	11.34	11.22	11.20
26	11.13	10.92	11.63	12.13	11.44	11.90	11.31	11.13	11.43	11.38	11.11	11.68
27	10.97	10.90	11.59	11.77	12.26	11.89	11.37	11.24	11.35	11.47	11.20	11.32
28	10.96	---	11.27	11.78	11.78	11.97	11.30	11.42	11.34	11.68	11.04	11.52
29	10.93	---	11.26	11.53	---	11.90	11.19	11.32	11.31	11.37	11.02	11.35
30	10.82	11.70	11.08	11.61	---	13.34	11.11	11.14	11.22	11.16	10.89	11.54
31	10.86	---	10.90	11.61	---	14.76	---	11.27	---	11.03	10.92	---
MEAN	11.06	---	---	11.89	11.36	13.12	12.88	11.13	11.28	11.33	11.06	11.26
MAX	11.39	---	---	14.20	12.60	17.08	18.71	11.42	11.48	11.68	11.52	11.70
MIN	10.75	---	---	10.81	10.85	11.34	11.11	10.85	10.79	11.03	10.77	10.99

02455000 LOCUST FORK NEAR CLEVELAND, AL

LOCATION.--Lat 34°01'28", long 86°34'27", in NE¼ sec. 6, T. 12 S., R. 1 E., Blount County, Hydrologic Unit 03160111, on left bank 200 ft (61 m) upstream from bridge on U.S. Highway 231, 3 mi (3.2 km) north of Cleveland, and 2.5 mi (4.0 km) downstream from Graves Creek, and at mile 98.6 (158.6 km).

DRAINAGE AREA.--309 mi^2 (800 km^2).

PERIOD OF RECORD.--December 1936 to current year.

REVISED RECORDS.--WSP 1112: 1943(M). WSP 1304: 1939(M), 1941(M). WSP 1384: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 536.94 ft (163.659 m) above mean sea level (Corps of Engineers bench mark). Prior to Apr. 20, 1940, nonrecording gage at site 200 ft (61 m) upstream at same datum. Apr. 20, 1940, to Apr. 11, 1945, nonrecording gage at present site and datum.

REMARKS.--Records good. Records of specific conductance and water temperatures for the water year 1977 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--40 years, 524 ft^3/s (14.84 m^3/s), 23.03 in/yr (585 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 47,000 ft^3/s (1,330 m^3/s) Dec. 28, 1942, gage height, 19.2 ft (5.85 m); minimum since Oct. 1, 1943, 2.3 ft^3/s (0.065 m^3/s) Sept. 14, 15, 16, 1954; minimum prior to Oct. 1, 1943, not determined.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 8,500 ft^3/s (241 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 13	0045	*24600	697	*14.13	4.307	Apr. 5	0615	20400	578	13.23	4.033

Minimum daily discharge, 6.9 ft^3/s (0.195 m^3/s) Sept. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	53	180	431	317	1350	1390	193	39	19	22	9.2
2	20	47	148	358	294	947	1040	185	34	63	23	8.7
3	20	40	129	382	264	780	3300	159	31	85	19	8.2
4	20	38	114	480	281	2750	5980	159	30	39	16	7.3
5	18	31	101	463	272	2250	17000	173	27	28	15	6.9
6	18	30	93	487	245	3510	4980	156	28	25	14	8.2
7	19	26	112	1100	221	2760	3000	130	24	20	12	1860
8	24	25	134	896	209	1900	2000	162	21	18	12	854
9	28	24	130	2500	203	1320	1500	148	19	22	12	523
10	24	26	112	3650	197	980	1100	111	20	19	12	263
11	23	28	123	2050	193	863	800	96	16	17	10	263
12	22	34	888	1300	203	9890	600	84	15	18	9.2	162
13	22	36	1110	942	235	14400	500	78	16	18	8.7	107
14	22	57	665	1470	225	1560	400	72	19	16	45	82
15	20	101	650	1650	200	1270	320	64	19	15	60	76
16	18	105	618	1150	181	933	270	61	19	15	39	290
17	17	60	483	814	161	743	230	57	19	15	34	696
18	16	69	401	686	168	632	210	54	20	16	51	403
19	15	62	347	561	167	570	190	49	23	13	42	270
20	14	58	605	506	158	520	170	46	27	12	27	227
21	16	54	956	460	151	800	188	42	28	11	22	188
22	17	51	654	416	139	3000	212	40	25	11	17	140
23	16	49	505	382	172	2000	718	49	22	17	15	109
24	16	47	427	604	3100	1000	794	59	20	14	17	88
25	20	44	542	732	2150	700	569	53	18	13	23	76
26	28	45	1330	566	1350	600	369	51	16	29	16	788
27	32	50	874	512	2550	526	297	48	17	30	13	2120
28	34	87	665	471	1960	605	260	86	17	28	11	1320
29	25	307	547	412	---	939	227	51	23	26	9.2	690
30	30	263	455	361	---	3430	208	45	21	21	8.2	600
31	47	---	471	340	---	2150	---	48	---	19	8.7	---
TOTAL	682	1947	14569	27132	15986	65678	48822	2809	673	712	643.0	12243.5
MEAN	22.0	64.9	470	875	571	2119	1627	90.6	22.4	23.0	20.7	408
MAX	47	307	1330	3650	3100	14400	17000	193	39	85	60	2120
MIN	14	24	93	340	139	520	170	40	15	11	8.2	6.9
CFSM	.07	.21	1.52	2.83	1.85	6.86	5.27	.29	.07	.07	.07	1.32
IN.	.08	.23	1.75	3.27	1.92	7.91	5.88	.34	.08	.09	.08	1.47

CAL YR 1976 TOTAL 190555.0 MEAN 521 MAX 9010 MIN 14 CFSM 1.69 IN 22.94
WTR YR 1977 TOTAL 191896.5 MEAN 526 MAX 17000 MIN 6.9 CFSM 1.70 IN 23.10

02456000 TURKEY CREEK AT MORRIS, AL

LOCATION.--Lat 33°44'25", long 86°48'45", in SW¼ sec. 12, T. 15 S., R. 3 W., Jefferson County, Hydrologic Unit 03060111, on downstream side of pier of bridge on (county road) former U.S. Highway 31, at Morris, 0.8 mi (1.3 km) downstream from Cunningham Creek, and at mile 4.0 (6.4 km).

DRAINAGE AREA.--81.5 mi^2 (211.1 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1944 to current year.

REVISED RECORDS.--WSP 1384: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 345.18 ft (105.211 m) above mean sea level. Prior to Feb. 9, 1968, nonrecording gage 80 ft (24 m) upstream at present datum.

REMARKS.--Water-discharge record good.

AVERAGE DISCHARGE.--33 years, 132 ft^3/s (3.738 m^3/s), 21.99 in/yr (559 mm/yr).

RXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,600 ft^3/s (442 m^3/s) Mar. 19, 1970, gage height, 23.12 ft (7.047 m); minimum observed, 8.5 ft^3/s (0.24 m^3/s) Sept. 21, 1969.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 1942 reached a stage of 22.6 ft (6.89 m) from information by local residents.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft^3/s (57 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 9	1830	2800	79.3	9.48	2.890
Feb. 24	0400	2580	73.1	8.96	2.731
Mar. 6	0715	2240	63.4	8.10	2.469
Mar. 12	1715	4330	123	12.37	3.770
Mar. 29	2045	2860	81.0	9.61	2.929
Apr. 4	2300	12700	360	21.14	6.443
Sept. 7	0645	2390	67.7	8.48	2.585

Minimum daily, 18 ft^3/s (0.51 m^3/s) Sept. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	28	40	90	107	273	280	69	34	27	31	21
2	33	25	37	82	97	218	239	69	33	25	30	21
3	30	23	36	139	93	196	1860	75	30	23	29	20
4	25	24	31	157	89	857	3810	95	30	22	28	19
5	24	22	28	140	79	457	3970	83	29	21	30	19
6	25	23	28	166	67	1480	638	72	27	21	28	18
7	26	22	63	286	60	563	408	68	27	21	28	917
8	25	25	48	202	58	363	309	86	28	20	27	149
9	24	21	38	1270	56	279	249	108	28	25	26	78
10	23	23	35	712	53	235	213	67	27	44	25	57
11	22	24	42	317	50	212	183	57	29	26	24	57
12	22	27	197	226	69	1990	162	52	27	23	24	44
13	22	25	189	185	74	860	145	49	24	21	23	39
14	22	34	113	388	60	424	131	48	24	22	22	88
15	22	57	153	316	55	301	118	47	24	20	30	155
16	23	42	117	224	50	242	106	43	25	20	27	319
17	25	31	88	177	50	211	98	40	26	20	25	141
18	27	30	73	157	50	189	94	40	34	21	24	88
19	22	28	63	128	48	163	90	39	42	22	23	67
20	26	27	350	116	44	149	82	39	44	29	22	58
21	25	27	214	100	42	302	78	37	28	20	22	51
22	23	26	142	88	44	467	191	95	30	29	21	47
23	24	23	112	81	126	272	285	59	26	24	21	46
24	23	24	92	228	1230	224	206	48	125	20	35	45
25	32	21	366	201	365	192	140	43	53	41	26	89
26	31	21	360	172	247	165	111	46	38	52	26	262
27	24	24	203	150	716	145	95	41	52	24	39	106
28	23	53	162	179	396	187	86	71	31	35	29	77
29	24	88	127	147	---	795	80	63	27	166	25	69
30	42	49	105	135	---	788	75	41	27	53	23	621
31	40	---	119	124	---	371	---	36	---	35	22	---
TOTAL	815	917	3771	7083	4475	13570	14532	1826	1029	972	815	3788
MEAN	26.3	30.6	122	228	160	438	484	58.9	34.3	31.4	26.3	126
MAX	42	88	366	1270	1230	1990	3970	108	125	166	39	917
MIN	22	21	28	81	42	145	75	36	24	20	21	18
CFSM	.32	.38	1.50	2.80	1.96	5.37	5.94	.72	.42	.39	.32	1.55
IN.	.37	.42	1.72	3.23	2.04	6.19	6.63	.83	.47	.44	.37	1.73

CAL YR 1976 TOTAL 60151 MEAN 164 MAX 3530 MIN 21 CFSM 2.01 IN 27.46
WTR YR 1977 TOTAL 53593 MEAN 147 MAX 3970 MIN 18 CFSM 1.80 IN 24.46

02456000 TURKEY CREEK AT MORRIS, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1975 to April 1977.

PERIOD OF DAILY RECORD.--
SUSPENDED SEDIMENT: November 1975 to April 1977.

REMARKS.--Miscellaneous samples of chemical data published for water years 1966-75.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT				MAY			
15...	22	--	15.0	20...	40	395	21.5
DEC				JUL			
10...	35	289	4.0	26...	38	325	24.0
JAN							
13...	181	163	6.0				

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22.0	12.0	4.0	6.0	4.0	---	---					
2	22.0	13.0	5.0	4.0	5.0	8.0	14.0					
3	22.0	12.0	5.0	6.0	10.0	9.0	---					
4	22.0	12.0	8.0	8.0	8.0	8.0	15.0					
5	22.0	9.0	9.0	9.0	4.0	7.0	18.0					
6	22.0	10.0	8.0	9.0	5.0	9.0	---					
7	22.0	11.0	10.0	9.0	4.0	9.0	---					
8	22.0	9.0	7.0	7.0	6.0	10.0	17.0					
9	22.0	12.0	4.0	9.0	6.0	12.0	---					
10	22.0	13.0	6.0	9.0	8.0	---	18.0					
11	22.0	10.0	9.0	3.0	8.0	12.0	18.0					
12	22.0	10.0	13.0	12.0	9.0	---	---					
13	22.0	8.0	10.0	4.0	9.0	---	18.0					
14	22.0	8.0	7.0	10.0	10.0	---	---					
15	22.0	9.0	10.0	6.0	7.0	---	18.0					
16	20.0	10.0	10.0	5.0	---	---	---					
17	20.0	11.0	10.0	1.0	---	---	18.0					
18	22.0	12.0	10.0	2.0	11.0	---	18.0					
19	22.0	11.0	9.0	9.0	15.0	---	---					
20	22.0	12.0	11.0	2.0	9.0	13.0	---					
21	20.0	13.0	7.0	2.0	10.0	10.0	---					
22	20.0	11.0	3.0	2.0	10.0	---	---					
23	20.0	9.0	4.0	3.0	10.0	---	---					
24	24.0	11.0	7.0	5.0	11.0	12.0	---					
25	24.0	11.0	9.0	4.0	12.0	14.0	---					
26	24.0	12.0	10.0	3.0	9.0	14.0	---					
27	20.0	13.0	7.0	6.0	7.0	---	---					
28	20.0	---	10.0	7.0	7.0	15.0	---					
29	10.0	8.0	8.0	3.0	---	14.0	---					
30	11.0	8.0	8.0	2.0	---	16.0	---					
31	12.0	---	8.0	2.0	---	15.0	---					
MEAN	20.5	10.5	8.0	5.5	8.0	11.5	17.0					

02456000 TURKEY CREEK AT MORRIS, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

SUSPENDED-SEDIMENT CONCENTRATION (MG/L), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	17	5	5	0	---	---					
2	---	13	8	5	0	308	29					
3	---	8	4	13	40	246	210					
4	---	10	4	14	4	166	---					
5	---	7	3	12	2	272	---					
6	---	7	3	4	2	33	27					
7	---	5	46	18	1	42	---					
8	---	8	9	12	1	19	246					
9	---	7	10	1210	2	15	---					
10	---	8	8	83	2	---	47					
11	---	10	5	26	4	13	22					
12	---	10	40	11	13	898	---					
13	---	8	50	11	59	---	26					
14	---	9	20	101	20	---	---					
15	---	7	29	22	3	---	39					
16	---	6	20	5	---	---	---					
17	---	6	18	5	---	---	29					
18	---	8	9	8	2	---	35					
19	---	15	8	3	10	---	---					
20	---	10	89	2	2	27	---					
21	---	9	39	3	4	34	---					
22	---	8	17	3	4	---	---					
23	---	5	---	3	118	---	---					
24	---	3	---	8	108	13	---					
25	---	1	52	19	30	11	---					
26	---	---	50	10	25	21	---					
27	---	5	19	10	18	---	---					
28	---	---	22	17	12	99	---					
29	9	16	19	15	---	29	---					
30	14	7	10	7	---	119	---					
31	35	---	18	6	---	38	---					

02456050 TURKEY CREEK UPSTREAM FROM KIMBERLY, AL

LOCATION.--Lat 33°45'32", long 86°49'37", in NW¼NE¼SW¼ sec. 2, T. 15 S., R. 3 W., Jefferson County, Hydrologic Unit 03160111, at county road bridge, 1.3 mi (2.1 km) northwest of Morris and 1.3 mi (2.1 km) southwest of Kimberly.

DRAINAGE AREA.--80.8 mi^2 (209.3 km^2).

PERIOD OF RECORD.--October 1975 to April 1977.

PERIOD OF DAILY RECORD.--
SUSPENDED SEDIMENT: August 1976 to April 1977.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22.0	11.0	5.0	6.0	4.0	8.0	---					
2	22.0	12.0	5.0	5.0	5.0	---	18.0					
3	22.0	12.0	5.0	6.0	11.0	9.0	---					
4	22.0	12.0	7.0	8.0	8.0	8.0	15.0					
5	22.0	11.0	9.0	10.0	9.0	7.0	---					
6	22.0	10.0	8.0	9.0	6.0	---	18.0					
7	22.0	11.0	10.0	10.0	5.0	8.0	18.0					
8	22.0	9.0	8.0	8.0	6.0	10.0	17.0					
9	22.0	11.0	5.0	9.0	7.0	12.0	18.0					
10	22.0	13.0	7.0	---	7.0	---	---					
11	22.0	10.0	9.0	4.0	7.0	11.0	---					
12	20.0	10.0	12.0	4.0	8.0	11.0	18.0					
13	22.0	8.0	11.0	4.0	9.0	---	18.0					
14	22.0	9.0	8.0	9.0	10.0	---	---					
15	22.0	9.0	10.0	6.0	7.0	13.0	17.0					
16	20.0	10.0	10.0	5.0	7.0	---	---					
17	20.0	11.0	11.0	1.0	8.0	12.0	---					
18	22.0	12.0	10.0	2.0	11.0	---	---					
19	22.0	12.0	10.0	---	15.0	---	---					
20	22.0	13.0	12.0	2.0	7.0	11.0	---					
21	22.0	13.0	9.0	3.0	9.0	12.0	18.0					
22	22.0	11.0	5.0	3.0	10.0	---	17.0					
23	22.0	10.0	5.0	3.0	10.0	12.0	17.0					
24	---	10.0	7.0	5.0	10.0	12.0	16.0					
25	---	11.0	9.0	4.0	12.0	14.0	16.0					
26	20.0	11.0	10.0	3.0	8.0	14.0	15.0					
27	---	13.0	8.0	6.0	9.0	---	15.0					
28	---	11.0	10.0	7.0	---	15.0	17.0					
29	10.0	9.0	9.0	3.0	---	14.0	18.0					
30	11.0	8.0	9.0	3.0	---	14.0	---					
31	11.0	---	8.0	3.0	---	---	---					
MEAN	20.5	11.0	8.5	5.0	8.5	11.5	17.0					

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)
OCT			
15...	1030	E28	11
16...	0800	E28	81
17...	0930	E27	246
18...	1000	E32	17
19...	0930	E27	294
20...	0830	E29	123
21...	0930	E29	391
22...	0830	E28	155
23...	1000	E29	326
26...	0930	E37	9
28...	0830	E27	9
29...	0930	E29	8
29...	1445	E28	8
30...	1530	E56	22
31...	1500	E40	10
NOV			
01...	1645	E32	14
02...	1615	E29	8
03...	1700	E28	9
04...	1245	E28	7
05...	1300	E28	6

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)
NOV			
06...	1400	E28	4
07...	1530	E27	8
08...	1415	E27	8
09...	1345	E27	8
10...	1300	E28	7
11...	1400	E30	13
12...	1330	E35	11
13...	0945	E31	8
14...	1545	E38	16
15...	1045	E68	8
16...	1700	E42	8
17...	1400	E37	8
18...	1345	E36	9
19...	1430	E33	9
20...	1430	E32	7
21...	1500	E33	7
22...	1330	E32	8
23...	1500	E27	6
24...	1600	E27	7

02456050 TURKEY CREEK UPSTREAM FROM KIMBERLY, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)
NOV			
25...	1530	E26	4
26...	1530	E27	7
27...	1700	E28	4
28...	1500	E50	37
29...	1630	E131	20
30...	1500	E54	10
DEC			
01...	0900	E48	10
02...	0830	E44	7
03...	0845	E50	12
04...	1630	E36	5
05...	1730	E32	5
06...	0830	E30	6
07...	1230	E84	16
08...	0830	E59	8
09...	0830	E45	6
10...	0830	E41	5
11...	1030	E41	2
12...	1430	E180	52
13...	0830	E216	61
14...	0830	E131	24
DEC			
15...	0830	E187	25
16...	0830	E134	17
17...	1430	E98	8
18...	1200	E81	4
19...	1100	E68	4
20...	1030	E410	127
21...	1130	E222	55
22...	0930	E156	20
23...	1030	E123	12
24...	1130	E101	8
25...	1100	E105	68
26...	1130	E348	65
27...	0900	E221	29
29...	0900	E140	16
30...	1100	E114	4
31...	1530	E127	11
JAN			
01...	1230	E98	5
02...	1100	E91	3

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)
JAN			
03...	1100	E159	7
04...	0915	E164	13
05...	0845	E157	13
12...	1030	E239	20
13...	0830	E199	19
14...	1000	E200	99
15...	1000	E470	180
16...	1330	E232	13
17...	1015	E184	7
18...	1100	E157	15
19...	0130	E154	1
20...	0930	E126	3
21...	0900	E111	7
22...	0900	E98	4
23...	1030	E87	3
24...	0900	E317	59
25...	0830	E219	17
26...	0900	E185	11
27...	0900	E165	12
28...	0900	E209	20
29...	1045	E158	17
JAN			
30...	1130	E147	5
31...	0935	E137	4
31...	1110	E134	6
FEB			
01...	1500	E117	3
02...	1730	E104	3
03...	1215	E101	9
04...	1630	E98	6
05...	1500	E86	7
06...	1500	E75	8
07...	1645	E68	3
08...	1645	E67	4
09...	1730	E63	3
10...	1700	E60	6
11...	1700	E59	8
12...	1130	E75	13
13...	1030	E83	14
14...	1630	E69	10
15...	1700	E62	5

02456050 TURKEY CREEK UPSTREAM FROM KIMBERLY, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)
FEB			
16...	1700	E76	4
17...	1700	E58	1
18...	1600	E58	5
19...	1700	E56	9
20...	1130	E51	2
21...	1300	E50	4
22...	1700	E50	162
23...	1700	E55	3
24...	1700	E652	131
25...	1700	E334	33
26...	1630	E244	17
27...	1700	E644	23
MAR			
01...	1730	E267	18
03...	1200	E202	345
04...	1230	E1190	414
04...	1700	E822	228
05...	1330	E412	218
07...	1300	E730	16
08...	1230	E369	17
09...	1300	E292	17
MAR			
11...	1300	E228	740
12...	1300	E3140	732
12...	1310	3200	1110
12...	1312	E3330	1160
12...	1320	E3310	1160
12...	1530	E4070	840
12...	1535	E4070	832
12...	1538	4110	839
15...	1700	E299	37
17...	1730	E217	15
20...	1645	E175	40
21...	1645	E263	41
23...	1330	E275	19
24...	1600	E231	12
25...	1200	E207	15
26...	0930	E180	14
28...	1230	E197	192
28...	1310	E205	139
28...	1312	205	133

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)
MAR			
29...	1230	E214	80
29...	2020	E2820	1880
29...	2022	2800	1750
29...	2025	E2820	1750
29...	2115	E2820	1050
29...	2117	2820	1081
29...	2305	E2200	456
29...	2307	2200	399
29...	2310	E2200	399
30...	0025	E1720	352
30...	0027	1720	277
30...	0030	E1720	277
30...	1300	E622	89
31...	1300	E369	37
APR			
01...	1230	E296	30
02...	1330	E249	24
03...	2145	E2170	343
03...	2150	E2170	218
APR			
04...	1200	E875	324
06...	1200	E617	53
07...	1200	E413	29
08...	1200	E320	57
09...	1200	E261	32
12...	1200	E176	18
13...	1200	E160	18
15...	1200	E130	235
21...	1230	E87	6
22...	1130	E90	145
23...	1200	E309	131
24...	1800	E189	65
25...	1630	E147	16
26...	1800	E116	18
27...	1630	E104	16
28...	1630	E97	23
29...	1600	E90	12

02456330 CROOKED CREEK NEAR MORRIS, AL

LOCATION.--Lat 33°44'10", long 86°52'99", in SE¼NE¼ sec. 17, T. 15 S., R. 3 W., Jefferson County, Hydrologic Unit 03150111, on right bank 100 ft (30.5 m) downstream from bridge on county road (Sardis Road), 2 mi (3.2 km) southwest of Sardis, 3.2 mi (5.1 km) west-southwest of Morris, and at mile 3.6 (5.8 km).

DRAINAGE AREA.--16.2 mi^2 (42.0 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 320 ft (98 m), from topographic map.

REMARKS.--Water-discharge record fair.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 480 ft^3/s (13.59 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 9	1600	734	20.8	6.24	1.902	Apr. 4	1915	*5040	144	*17.08	5.206

Minimum daily discharge, 0.44 ft^3/s (0.012 m^3/s) Oct. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.79	.99	2.6	11	18	48	48	5.1	2.2	.67	.78	.52
2	.62	.92	2.8	10	16	35	40	4.4	1.8	.66	1.0	.52
3	.52	.90	3.0	17	16	31	361	4.2	1.7	.63	1.2	.52
4	.50	.90	2.6	23	15	313	1350	8.9	1.5	.62	.79	.55
5	.50	.90	2.6	23	14	122	518	6.7	1.3	.62	.77	.53
6	.67	.90	2.8	29	12	391	112	6.1	1.2	.58	.73	.75
7	.62	.90	5.3	63	11	137	66	4.1	1.1	.57	2.3	174
8	.50	.90	5.9	40	10	70	48	23	.98	.58	3.2	17
9	.44	.90	4.3	305	10	48	38	24	.87	.58	2.3	6.9
10	.57	.84	3.6	164	9.6	37	31	12	.85	.57	.60	3.8
11	.52	.96	4.2	58	9.2	30	25	8.6	.79	.67	.54	2.8
12	.48	2.6	34	40	13	627	21	6.5	.78	.75	.52	2.1
13	.48	1.5	42	32	13	199	18	5.3	.78	.70	.52	1.9
14	.52	1.7	22	103	12	77	16	4.6	.73	.65	.52	9.2
15	.48	4.0	28	86	11	48	14	4.2	.71	.60	.52	11
16	.48	2.1	24	50	10	40	13	3.7	.73	.60	.52	24
17	.52	1.7	16	36	10	32	12	3.1	.84	.54	.52	17
18	.52	1.5	13	31	10	29	11	2.7	1.1	.56	.53	9.1
19	.52	1.4	11	24	9.9	25	10	2.5	1.2	.79	.52	6.7
20	.67	1.4	64	21	9.3	21	8.3	2.4	2.1	.72	.53	5.2
21	.57	1.4	44	21	8.9	50	6.7	2.2	1.1	.60	.51	3.7
22	.57	1.3	27	25	8.6	103	18	23	.85	.57	.50	2.8
23	.57	1.2	19	35	28	54	24	12	.85	.57	.56	2.5
24	.62	1.1	14	40	288	39	23	6.6	4.7	.57	.56	2.3
25	.99	.93	81	45	78	32	15	6.5	1.2	.97	.52	22
26	1.3	1.1	84	37	44	26	11	8.4	1.1	.80	.52	67
27	.85	.98	39	28	185	22	9.2	5.0	.92	.91	.52	22
28	.73	9.6	28	28	81	33	7.8	4.3	.80	1.2	.52	13
29	.67	16	19	21	---	102	6.8	3.8	.73	1.8	.52	12
30	1.7	7.8	15	19	---	167	6.1	3.0	.68	1.9	.52	379
31	1.7	---	15	19	---	70	---	2.6	---	.92	.52	---
TOTAL	21.19	69.32	678.7	1484	960.5	3058	2887.9	219.5	36.19	23.47	24.68	820.39
MEAN	.68	2.31	21.9	47.9	34.3	98.6	96.3	7.08	1.21	.76	.80	27.3
MAX	1.7	16	84	305	288	627	1350	24	4.7	1.9	3.2	379
MIN	.44	.84	2.6	10	8.6	21	6.1	2.2	.68	.54	.50	.52
CFSM	.04	.14	1.35	2.96	2.12	6.09	5.94	.44	.08	.05	.05	1.69
IN.	.05	.16	1.56	3.41	2.21	7.02	6.63	.50	.08	.05	.06	1.88

CAL YR 1976 TOTAL 10545.00 MEAN 28.8 MAX 635 MIN .44 CFSM 1.78 IN 24.21
WTR YR 1977 TOTAL 10283.84 MEAN 28.2 MAX 1350 MIN .44 CFSM 1.74 IN 23.61

02456330 CROOKED CREEK NEAR MORRIS, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1975 to October 1977 (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: September 1976 to October 1977 (discontinued).
WATER TEMPERATURES: September 1976 to October 1977 (discontinued).
SUSPENDED SEDIMENT: December 1975 to October 1977 (discontinued).

INSTRUMENTATION.--Specific conductance recorder since September 1976; temperature recorder since September 1976; automatic sediment sampler since December 1975.

REMARKS.--Interruptions in specific conductance and temperature data due to malfunctions of the equipment. Sediment samples are collected twice daily during normal flow and with change in stage of one half foot. Samples are collected manually (ETR method) during selected events.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
FEB									
24...	1246	248	100	7.1	10.5	--	11	0	29
MAR									
03...	1330	40	153	6.7	10.0	--	22	0	52
04...	0235	57	163	6.3	14.0	--	14	0	53
04...	0328	100	185	6.9	13.0	--	10	0	63
04...	0900	E527	103	6.2	11.0	--	11	0	36
12...	1320	1810	59	5.9	13.0	--	9	0	19
APR									
20...	1310	7.1	680	6.7	19.0	9.2	46	0	260
MAY									
17...	1610	1.8	--	--	--	--	--	--	--
20...	1930	3.7	940	7.2	--	9.2	46	0	450
24...	0715	5.3	--	--	--	--	--	--	--
JUN									
21...	1815	.94	1020	--	31.0	--	--	--	--

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	TOTAL ALUMINUM (AL) (UG/L)
FEB								
24...	--	--	--	--	--	--	--	1100
MAR								
03...	58	40	10	8.0	4.5	.3	1.2	280
04...	60	49	10	8.4	4.1	.2	1.4	1600
04...	70	62	12	9.8	4.2	.2	1.5	1000
04...	45	36	8.3	5.9	3.0	.2	1.4	1400
12...	24	17	4.5	3.1	3.2	.3	2.7	5800

DATE	DISSOLVED ALUMINUM (AL) (UG/L)	TOTAL ALUMINUM IN BOTTOM MATERIAL (UG/G)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)
FEB								
24...	40	5000	4800	50	12000	230	140	480
MAR								
03...	60	--	520	100	--	210	220	--
04...	40	--	13000	20	--	390	310	--
04...	60	--	16000	40	--	700	390	--
04...	60	--	6800	80	--	280	200	--
12...	80	--	19000	100	--	420	130	--

02456330 CROOKED CREEK NEAR MORRIS, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G)	TOTAL BORON (B) (UG/L)	TOTAL BORON IN BOTTOM MA-TERIAL (UG/G)	TOTAL CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)
FEB											
24...	1	11	20	0	0	0	<10	30	0	<10	0

DATE	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	TOTAL LITHIUM (LI) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL MERCURY (HG) (UG/L)
FEB										
24...	0	1	0	10	5	0	<10	0	0	.0

DATE	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL SELE-NIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL STRON-TIUM (SR) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	TOTAL STRON-TIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)	TOTAL ORGANIC CARBON (C) (MG/L)
FEB										
24...	.0	0	0	90	50	20	10	0	20	2.8

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)
JAN			
13...	31	173	6.0
MAY			
16...	3.7	--	21.0

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)
JUN			
10...	.79	--	23.0

02456330 CROOKED CREEK NEAR MORRIS, AL--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1					---	---	202	187	247	207	124	114
2					---	---	207	197	252	222	140	130
3					---	---	222	202	247	232	151	141
4					---	---	228	218	292	242	172	77
5					---	---	233	228	282	252	113	93
6					---	---	228	223	297	272	98	78
7					---	---	218	173	307	288	124	99
8					---	---	173	143	328	298	150	125
9					---	---	143	63	323	303	181	151
10					---	---	103	68	353	313	212	182
11					---	---	119	104	348	328	238	208
12					---	---	139	119	358	248	268	63
13					---	---	149	134	343	263	164	94
14					---	---	179	99	349	339	220	165
15					---	---	104	94	344	334	271	221
16					---	---	119	104	344	334	319	274
17					200	195	134	114	344	334	348	328
18					205	200	145	130	344	334	536	351
19					220	200	180	145	349	339	405	390
20					225	155	185	165	359	349	433	398
21					176	171	265	190	370	360	447	242
22					176	166	275	245	385	370	255	190
23					176	171	285	265	380	130	224	204
24					196	176	340	195	105	85	257	232
25					201	151	236	156	116	111	290	260
26					156	146	166	146	157	117	324	294
27					151	136	176	156	117	93	342	327
28					157	142	186	156	108	98	381	251
29					157	147	196	176	---	---	314	149
30					177	162	201	186	---	---	183	168
31					197	172	216	191	---	---	206	186
MONTH					225	136	340	63	385	85	536	63

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	235	215	707	627	1070	993	1140	1100	1420	1180		
2	258	238	710	660	1150	1050	1140	1090	1470	1420		
3	271	156	717	672	1200	1130	1120	1070	---	---		
4	185	110	705	465	1290	1210	1110	1050	---	---		
5	243	138	543	473	1360	1290	1080	1030	---	---		
6	302	247	1480	536	1420	1360	1060	1010	---	---		
7	350	305	1450	729	1480	1420	1030	980	---	---		
8	399	354	777	407	1610	1510	988	948	---	---		
9	442	402	505	475	1670	1620	956	886	---	---		
10	466	446	523	498	1730	1690	924	854	---	---		
11	494	474	536	506	1810	1760	851	776	---	---		
12	512	487	588	538	1870	1830	819	739	---	---		
13	526	506	616	561	1940	1890	682	647	---	---		
14	534	519	664	619	2000	1960	2130	2100	---	---		
15	553	533	697	652	2060	2020	2140	2100	---	---		
16	566	551	735	685	2130	2080	2160	2120	---	---		
17	590	565	770	705	2120	2000	2170	2120	---	---		
18	603	583	790	745	3880	1840	2190	2130	---	---		
19	607	592	805	770	1740	1530	2190	1620	---	---		
20	680	600	840	770	1520	956	2120	1930	---	---		
21	713	658	879	829	1230	944	2040	1920	---	---		
22	691	381	902	502	1370	1180	2060	2010	---	---		
23	559	429	631	581	1430	1320	2110	2050	---	---		
24	482	432	689	654	1320	423	2130	2090	---	---		
25	499	489	773	568	1030	501	2130	1770	---	---		
26	522	507	691	476	1080	984	1960	1490	---	---		
27	550	525	750	700	1110	1040	1890	1680	---	---		
28	578	553	804	759	1140	1050	1790	1500	---	---		
29	616	581	842	792	1140	1090	1700	1150	---	---		
30	659	609	946	821	1150	1080	1530	950	---	---		
31	---	---	1010	934	---	---	1170	975	---	---		
MONTH	713	110	1480	407	3880	423	2190	647	---	---		

02456330 CROOKED CREEK NEAR MORRIS, AL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1					---	---	3.0	1.5	3.5	1.0	10.5	6.5
2					---	---	2.5	1.0	4.5	1.0	10.5	7.0
3					---	---	4.5	2.5	4.0	2.5	11.0	10.0
4					---	---	6.5	4.5	7.5	3.5	13.0	10.5
5					---	---	8.0	6.0	7.0	4.5	10.5	9.0
6					---	---	7.0	6.5	5.0	2.5	11.0	10.0
7					---	---	7.5	5.5	4.5	2.0	12.0	8.5
8					---	---	6.0	4.5	4.5	1.5	12.0	7.5
9					---	---	8.5	6.0	5.5	1.5	12.0	8.0
10					---	---	8.0	4.5	6.5	2.5	12.5	10.0
11					---	---	4.5	3.0	7.0	4.5	14.0	12.0
12					---	---	4.5	2.5	8.0	6.5	15.0	11.5
13					---	---	6.0	4.0	7.5	2.5	15.0	11.0
14					---	---	8.0	5.5	9.5	5.5	15.0	10.0
15					---	---	8.5	6.0	9.5	6.0	14.5	11.0
16					---	---	6.0	3.0	6.5	4.0	16.0	12.5
17					8.0	7.0	3.0	1.0	6.5	3.5	14.5	12.0
18					8.5	6.5	3.0	1.0	9.0	4.5	16.5	14.0
19					9.0	6.5	2.0	0.5	9.5	6.0	16.5	14.0
20					10.5	7.5	3.5	1.5	8.0	5.5	16.5	13.5
21					7.5	4.5	4.0	1.5	7.5	4.0	14.5	12.5
22					4.5	3.0	3.5	1.0	10.0	5.0	14.5	11.0
23					4.5	3.0	4.5	2.0	11.0	9.5	14.0	9.0
24					4.5	2.0	5.0	4.0	11.0	8.5	14.5	9.5
25					7.5	3.0	6.5	4.5	12.5	8.0	16.0	11.5
26					8.0	6.5	6.0	3.0	14.0	10.0	16.0	11.5
27					7.5	5.0	8.5	6.0	13.5	5.0	17.5	13.5
28					8.5	7.0	8.5	5.0	10.5	7.0	16.0	14.5
29					7.5	5.5	4.5	2.0	---	---	15.0	14.0
30					6.5	4.0	3.0	1.0	---	---	17.5	14.0
31					6.5	3.0	4.5	2.5	---	---	17.5	13.5
MONTH					10.5	2.0	8.5	0.5	14.0	1.0	17.5	6.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	14.5	13.0	20.0	17.0	30.0	24.5	34.0	27.0	33.5	24.5	32.5	23.0
2	18.0	14.0	19.5	17.0	29.5	23.5	36.0	26.0	32.0	25.0	32.0	22.5
3	18.0	14.0	19.5	18.0	29.5	23.5	35.0	24.5	31.0	24.0	32.0	22.5
4	16.0	14.0	19.0	18.0	30.5	23.5	35.5	23.5	29.0	24.0	28.5	24.5
5	14.5	12.0	22.0	18.0	32.0	24.0	35.5	24.5	33.5	23.0	29.5	23.5
6	15.5	10.5	22.5	19.0	33.0	25.0	---	26.0	33.5	24.0	26.0	24.0
7	16.5	11.0	23.0	19.5	31.5	23.5	---	25.5	29.5	24.5	23.5	22.5
8	18.0	13.0	24.0	15.5	32.0	21.5	35.0	26.0	33.5	25.5	24.0	21.5
9	18.0	13.0	19.5	16.0	32.5	21.5	---	25.0	34.0	24.5	24.5	22.5
10	18.5	13.0	18.5	15.0	32.5	23.5	35.0	24.5	34.5	25.5	25.5	23.5
11	19.0	14.0	19.0	14.5	34.5	24.0	32.0	24.0	34.5	24.5	26.0	22.5
12	19.5	15.0	19.5	15.5	36.0	26.0	35.0	24.5	34.0	24.5	24.5	21.0
13	19.5	15.5	20.0	16.0	37.0	26.5	31.5	25.0	34.5	25.0	26.0	23.0
14	20.5	15.5	20.0	16.5	34.5	27.5	35.0	28.0	34.5	25.0	27.0	22.5
15	20.0	15.5	21.0	17.0	32.0	27.0	34.0	25.0	32.0	25.0	24.5	22.0
16	20.0	15.5	22.5	17.5	32.0	26.5	34.0	24.5	33.0	25.0	23.5	22.5
17	20.0	16.0	23.5	18.5	34.0	26.5	33.0	25.0	31.5	25.5	24.0	22.0
18	19.5	17.0	23.5	19.0	33.5	26.5	33.5	23.5	32.5	25.5	24.5	22.0
19	20.5	17.0	24.5	19.5	34.0	27.0	31.0	25.0	32.5	23.0	23.5	22.5
20	20.0	18.0	25.0	19.5	31.0	27.0	31.0	24.0	31.0	24.5	23.5	21.5
21	19.0	18.0	25.5	20.5	35.0	27.0	33.0	24.0	30.5	23.0	24.0	21.0
22	18.5	17.5	22.0	19.0	36.0	27.0	31.5	24.5	30.5	23.5	23.5	20.0
23	19.0	17.0	22.0	18.5	36.5	27.5	33.0	25.0	30.5	23.5	23.5	20.0
24	18.0	15.5	23.5	19.5	31.5	27.0	32.5	25.5	33.5	23.5	24.0	21.5
25	18.0	14.5	23.0	21.0	34.5	27.5	31.0	26.0	32.0	24.5	24.5	21.5
26	16.0	13.0	23.0	20.0	33.0	28.0	32.0	25.0	30.0	25.0	22.5	20.5
27	17.0	12.5	22.5	20.5	36.0	26.0	32.0	25.0	30.5	23.5	22.0	21.0
28	17.5	13.5	22.5	21.0	36.0	26.5	28.0	25.0	31.5	23.5	23.0	20.5
29	18.5	15.5	25.5	20.5	34.0	26.5	27.0	24.5	33.0	23.5	21.5	19.5
30	20.0	16.5	27.5	22.5	36.0	25.5	30.5	24.0	33.5	23.5	20.5	19.5
31	---	---	28.5	24.0	---	---	32.5	25.5	31.5	23.5	---	---
MONTH	20.5	10.5	28.5	14.5	37.0	21.5	36.0	23.5	34.5	23.0	32.5	19.5

02456330 CROOKED CREEK NEAR MORRIS, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT				
01...	0855	E.79	15	--
01...	2055	E.79	16	--
02...	0855	E.62	21	--
02...	2055	E.62	15	--
03...	0855	E.52	24	--
03...	2055	E.52	20	--
04...	0855	E.50	12	--
04...	2055	E.50	7	--
05...	0855	E.50	2	--
05...	2055	E.50	0	--
06...	0855	E.67	0	--
06...	2055	E.67	0	--
07...	0855	E.62	0	--
07...	2055	E.62	0	--
08...	0855	E.50	0	--
08...	2055	E.50	13	--
09...	0855	E.44	7	--
09...	2055	E.44	3	--
10...	0855	2.5	13	.09
10...	1333	2.5	13	.09
10...	2055	2.5	7	.05
11...	0855	2.4	11	.07
11...	2055	2.4	9	.06
12...	0855	2.2	11	.07
12...	2055	2.2	5	.03
13...	0855	2.2	9	.05
13...	2055	2.2	8	.05
14...	0855	2.3	11	.07
14...	2055	2.3	16	.10
15...	0850	2.2	16	.10
15...	2055	2.2	13	.08
16...	0850	2.2	13	.08
16...	2055	2.2	9	.05
17...	0850	2.4	11	.07
17...	2055	2.4	8	.05
18...	0850	2.3	13	.08
18...	2050	2.3	5	.03
19...	0850	2.3	9	.06
19...	2050	2.3	4	.02

02456330 CROOKED CREEK NEAR MORRIS, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT				
20...	0850	2.8	8	.06
20...	2050	2.8	11	.08
21...	0850	2.5	7	.05
21...	2050	2.5	4	.03
22...	0850	2.4	9	.06
22...	2050	2.4	4	.03
23...	2050	2.5	7	.05
24...	0850	2.6	7	.05
24...	2050	2.6	7	.05
25...	0850	2.7	22	.16
25...	2050	2.7	18	.13
26...	0850	4.9	11	.15
26...	2050	4.9	24	.32
27...	0845	3.4	21	.19
28...	0845	3.0	17	.14
29...	0845	2.8	17	.13
29...	0920	2.8	13	.10
29...	0953	2.8	4	.03
30...	0800	2.8	3	.02
30...	2005	5.7	44	.68
30...	2010	5.7	53	.82
OCT				
30...	2305	5.7	12	.18
31...	0755	5.7	13	.20
NOV				
01...	0755	3.7	9	.09
01...	1955	3.7	8	.08
02...	0755	3.4	9	.08
02...	1955	3.4	5	.05
03...	0750	E.90	11	--
03...	1950	E.90	3	--
04...	0745	E.90	5	--
04...	1945	E.90	4	--
05...	0740	E.90	5	--
06...	0740	E.90	5	--
07...	0735	E.90	4	--
07...	1935	E.90	5	--
08...	0735	E.90	5	--
10...	0730	.84	12	.03
10...	1132	.84	12	.03
10...	1930	.84	9	.02

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
NOV				
11...	0725	.79	9	.02
12...	0720	3.0	17	.14
13...	0715	1.6	12	.05
14...	0715	1.2	12	.04
15...	0100	6.5	22	.39
15...	0530	4.5	14	.17
16...	0705	2.2	9	.05
17...	0705	1.8	8	.04
18...	0700	1.4	8	.03
18...	1900	1.6	8	.03
19...	0700	1.4	7	.03
20...	0655	1.4	5	.02
21...	0655	1.6	7	.03
22...	0650	1.3	7	.02
DEC				
03...	0400	E3.0	9	--
03...	1815	E3.0	7	--
04...	0610	E2.6	9	--
04...	1825	E2.6	5	--
05...	0620	E2.6	9	--
05...	1835	E2.6	5	--
DEC				
06...	0630	E2.8	8	--
06...	1835	E2.8	9	--
07...	0155	E5.3	14	--
07...	0630	E5.3	12	--
07...	1400	E5.3	9	--
08...	0630	E5.9	7	--
09...	0630	E4.3	5	--
10...	0350	E3.6	4	--
12...	0700	E34	89	--
12...	1130	E34	23	--
12...	1720	E34	227	--
12...	1910	E34	632	--
12...	1930	E34	746	--
13...	0710	E42	78	--
13...	0935	E42	55	--
14...	0720	E22	22	--
14...	1349	E22	13	--
14...	1402	E22	14	--
14...	2305	E22	24	--

02456330 CROOKED CREEK NEAR MORRIS, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
DEC				
15...	0600	E28	39	--
16...	0605	E24	23	--
16...	1805	E24	14	--
16...	2110	E24	17	--
17...	0805	17	13	.60
17...	1107	18	12	.58
18...	0605	14	13	.49
18...	1805	13	17	.60
19...	0605	11	21	.62
19...	1345	125	11	3.7
20...	0600	20	47	2.5
20...	0900	31	80	6.7
20...	1010	76	207	42
20...	1115	114	587	181
20...	1550	100	326	88
21...	0215	59	64	10
21...	0605	51	45	6.2
22...	0230	31	22	1.8
22...	1545	28	9	.68
23...	0600	20	16	.86
24...	0600	15	11	.45
DEC				
25...	0605	12	8	.26
25...	1225	34	74	6.8
25...	1445	113	145	44
25...	1510	147	361	143
25...	1550	170	704	323
25...	2315	540	169	246
26...	0610	98	90	24
26...	0625	96	95	25
26...	1900	59	34	5.4
27...	0610	43	19	2.2
28...	0355	31	14	1.2
29...	0610	21	14	.79
JAN				
03...	1402	19	12	.62
03...	1426	20	7	.38
04...	0525	22	9	.53
05...	0520	24	9	.58
06...	0520	20	7	.38
06...	1635	29	89	7.0

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JAN				
06...	2100	60	199	32
07...	0520	72	55	11
07...	1600	58	16	2.5
08...	0520	45	10	1.2
08...	1423	38	8	.82
09...	0520	32	5	.43
09...	0845	61	83	14
09...	1010	113	202	62
09...	1100	185	456	228
09...	1140	257	616	427
09...	1220	328	909	805
09...	1305	395	1100	1170
09...	1320	428	1050	1210
09...	1405	506	1340	1830
09...	1420	566	1340	2050
09...	1430	595	1240	1990
09...	1515	702	880	1670
09...	1620	744	545	1100
09...	1805	688	285	529
09...	1820	658	248	441
JAN				
09...	1920	589	195	310
09...	1940	566	176	269
09...	2020	521	162	228
09...	2120	466	130	164
09...	2220	423	116	132
09...	2320	390	100	105
09...	2335	383	96	99
10...	0020	355	106	102
10...	0120	334	79	71
10...	0220	313	92	78
10...	0245	302	92	75
10...	0320	283	99	76
10...	0420	249	123	83
10...	0500	227	136	83
10...	0520	220	127	75
10...	0620	198	118	63
10...	0910	159	83	36
10...	1655	103	52	14
11...	0520	66	28	5.0

02456330 CROOKED CREEK NEAR MORRIS, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JAN				
11...	0800	61	35	5.8
11...	1426	54	136	20
14...	0050	29	14	1.1
15...	0340	103	15	4.2
15...	1700	71	14	2.7
25...	0420	E45	8	--
28...	1145	E28	6	--
FEB				
01...	0440	18	7	.34
02...	1635	16	7	.30
18...	0924	8.5	7	.16
18...	0925	10	6	.16
18...	0927	8.5	11	.25
18...	1020	8.5	9	.21
18...	1620	8.9	9	.22
19...	0415	8.5	12	.28
19...	1615	8.5	9	.21
20...	0410	8.2	33	.73
20...	1610	7.6	9	.18
21...	0405	7.6	9	.18
21...	1605	7.3	9	.18

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
FEB				
22...	0400	7.0	11	.21
22...	1600	7.0	5	.09
23...	0355	6.7	4	.07
23...	0922	6.7	1	.02
23...	1555	6.7	5	.09
23...	1825	9.5	14	.36
23...	2005	16	1023	44
23...	2120	58	3305	518
23...	2210	95	1210	310
23...	2235	136	1920	705
23...	2255	209	280	158
23...	2325	266	1810	1300
23...	2355	326	2020	1780
24...	0025	367	2170	2150
24...	0055	410	1690	1870
24...	0155	468	806	1020
24...	0230	472	563	717
24...	0650	458	151	187
24...	0750	437	134	158

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
FEB				
24...	0840	403	132	144
24...	0950	351	136	129
24...	1035	323	144	126
24...	1050	305	151	124
24...	1150	260	194	136
24...	1205	253	184	126
24...	1215	244	211	139
24...	1246	248	163	109
24...	1250	132	150	53
24...	1252	248	173	116
24...	1456	209	143	81
24...	1610	169	123	56
24...	1655	160	112	48
25...	0200	112	73	22
25...	1110	76	30	6.2
25...	1605	62	28	4.7
25...	1610	62	28	4.7
25...	1635	61	24	4.0
25...	1820	58	5	.78
25...	1825	59	6	.96

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
FEB				
25...	1855	57	14	2.2
25...	1900	57	18	2.8
25...	1905	57	21	3.2
25...	1907	57	25	3.8
25...	1910	56	28	4.2
25...	1915	56	26	3.9
26...	0400	48	22	2.9
26...	1600	40	15	1.6
27...	0145	87	228	54
27...	0240	136	437	160
27...	0355	189	501	256
27...	0440	217	724	424
27...	0450	225	689	419
27...	0455	227	639	392
27...	0550	254	366	251
27...	0555	257	321	223
27...	0630	46	278	35
27...	0655	271	246	180
27...	0755	275	179	133

02456330 CROOKED CREEK NEAR MORRIS, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
FEB				
27...	0855	266	980	704
27...	0952	256	124	86
27...	0955	256	109	75
27...	1055	246	86	57
27...	1120	240	92	60
27...	1125	239	93	60
27...	1127	239	90	58
27...	1130	237	86	55
27...	1135	244	86	57
27...	1200	232	105	66
27...	1210	229	70	43
27...	1215	227	88	54
27...	1255	217	81	47
27...	1355	203	74	41
27...	1555	182	58	29
27...	1645	173	55	26
27...	1740	161	52	23
28...	0155	106	30	8.6
28...	0205	110	30	8.9
28...	0355	97	29	7.6
28...	1130	78	16	3.4
FEB				
28...	1550	69	18	3.4
28...	2115	61	13	2.1
28...	2125	61	14	2.3
MAR				
01...	0350	54	9	1.3
01...	0927	48	10	1.3
01...	1003	48	11	1.4
01...	1610	44	10	1.2
02...	0405	36	13	1.3
02...	1605	32	9	.78
02...	1815	32	8	.69
02...	1930	31	9	.75
03...	0853	28	12	.91
03...	1022	28	12	.91
03...	1023	29	9	.70
03...	1035	E31	10	--
03...	1250	E31	13	--
03...	1605	E31	8	--
04...	0200	E40	73	--

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAR				
04...	0233	57	224	34
04...	0235	57	300	46
04...	0240	60	369	60
04...	0300	E60	121	--
04...	0328	100	445	120
04...	0335	100	510	138
04...	0400	E128	992	--
04...	0417	156	262	110
04...	0425	156	267	112
04...	0505	--	492	--
04...	0525	E388	536	--
04...	0530	E388	618	--
04...	0535	388	467	489
04...	0548	378	506	516
04...	0600	388	530	555
04...	0625	444	572	686
04...	0636	444	568	681
04...	0700	480	568	736
04...	0710	480	508	658
04...	0800	E500	354	--
MAR				
04...	0856	527	207	295
04...	0857	527	209	297
04...	0900	E27	200	--
04...	1000	E502	145	--
04...	1025	E490	140	--
04...	1105	E477	131	--
04...	1140	E458	115	--
04...	1200	--	102	--
04...	1205	E452	106	--
04...	1305	447	96	116
04...	1313	447	77	93
04...	1355	E407	90	--
04...	1440	E375	88	--
04...	1505	E367	93	--
04...	1605	E327	98	--
04...	1620	E311	158	--
04...	1700	281	560	425
04...	1702	E281	102	--
04...	1805	E260	91	--

02456330 CROOKED CREEK NEAR MORRIS, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAR				
04...	1900	E240	84	--
04...	1935	E230	82	--
04...	2100	E200	68	--
04...	2200	E180	66	--
04...	2300	E160	28	--
05...	0150	E122	48	--
05...	0600	E122	36	--
05...	1145	E122	156	--
05...	2125	E122	38	--
05...	2330	E122	96	--
06...	0040	E167	153	--
06...	0055	E167	184	--
06...	0155	E212	238	--
06...	0200	E212	237	--
06...	0255	E257	243	--
06...	0355	E302	214	--
06...	0455	E347	205	--
06...	0600	E292	171	--
06...	0655	E378	135	--
06...	0755	E364	107	--
MAR				
06...	0855	E350	95	--
06...	1200	E308	62	--
06...	1300	E294	62	--
06...	1400	E280	60	--
06...	1420	E273	64	--
06...	1500	E266	59	--
06...	1600	E252	71	--
06...	1655	E238	66	--
06...	1800	E224	71	--
06...	1855	E210	61	--
06...	1955	E196	58	--
06...	2055	--	48	--
06...	2135	E168	55	--
06...	2255	E154	51	--
06...	2355	E140	50	--
07...	0055	E137	46	--
07...	0155	E137	37	--
07...	1545	E137	25	--
07...	1745	E137	13	--

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAR				
08...	0550	--	5	--
08...	0555	E70	6	--
08...	1755	E70	162	--
08...	2005	E70	10	--
09...	0550	E48	6	--
10...	0545	E37	5	--
10...	1115	E37	5	.49
10...	1122	E37	1	.10
10...	1745	E37	3	--
11...	0540	E30	1	--
11...	1430	E30	9	--
11...	1515	E30	0	--
12...	0505	E327	129	--
12...	0630	E327	161	--
12...	0755	E400	177	--
12...	0830	E500	366	--
12...	0850	E650	908	--
12...	0900	E700	969	--
12...	0915	E700	3520	--
12...	0930	E700	2620	--
MAR				
12...	0940	E700	1920	--
12...	0956	716	1360	2630
12...	0957	716	1770	3420
12...	1000	E720	1090	--
12...	1200	1474	--	--
12...	1235	1846	1120	5580
12...	1439	E1550	1540	--
12...	1456	1560	346	1460
12...	1635	E1330	381	--
12...	1737	E1215	354	--
12...	1740	E1215	281	--
12...	1832	E1100	275	--
12...	1835	E1100	250	--
12...	1935	E985	245	--
12...	2032	E870	221	--
12...	2225	640	205	354
12...	2232	640	203	351
12...	2235	640	189	327
13...	0027	410	379	420

02456330 CROOKED CREEK NEAR MORRIS, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAR				
13...	0030	410	145	161
13...	0207	180	116	56
13...	0210	180	101	49
13...	0332	E180	94	--
13...	0335	E180	94	--
13...	0435	E180	94	--
13...	0635	E199	124	--
13...	0735	E199	134	--
13...	0835	E199	128	--
13...	0945	E199	131	--
13...	1232	E179	106	--
13...	1235	E179	98	--
13...	1735	E156	85	--
13...	2330	--	64	--
13...	2340	E122	77	--
14...	0535	E77	64	--
14...	1735	E77	60	--
15...	0020	E48	18	--
15...	0530	E48	51	--
15...	0915	E48	33	--
15...	1115	E48	10	--
15...	1745	51	9	1.2
16...	0540	40	8	.86
16...	1740	37	13	1.3
17...	0540	33	10	.89
17...	1330	30	8	.65
18...	1215	28	10	.76
19...	0535	24	8	.52
19...	1735	22	9	.53
20...	1530	20	16	.86
20...	1730	20	9	.49
21...	0530	17	30	1.4
21...	1455	27	34	2.5
21...	1715	52	133	19
21...	1730	58	171	27
21...	1900	91	209	51
22...	0525	124	33	11
22...	1050	109	12	3.5
22...	1115	102	13	3.6
22...	1725	81	10	2.2
23...	0405	61	8	1.3
23...	1735	48	6	.78
24...	0520	40	10	1.1
24...	1720	34	3	.28
25...	0520	32	5	.43
25...	1025	30	4	.32
26...	0515	25	9	.61
26...	1715	23	3	.19
27...	0515	22	5	.30
27...	1715	21	3	.17
28...	0515	19	47	2.4
28...	1100	24	1	.06
28...	1710	52	57	8.0
29...	0510	36	8	.78
29...	1707	51	86	12
29...	1710	51	82	11
29...	1800	59	130	21
29...	1810	79	298	64
29...	1825	115	757	235
29...	1845	161	1640	713
29...	1905	239	1460	942
29...	2005	346	3090	2890
29...	2105	353	325	310
29...	2205	341	586	540
29...	2305	321	243	211
29...	2315	318	230	197
30...	0005	298	194	156
30...	0105	278	160	120
30...	0205	262	157	111
30...	0305	247	121	81
30...	0340	240	114	74
30...	0505	221	82	49
30...	0605	205	81	45
30...	0705	196	59	31
30...	0805	186	62	31
30...	1025	164	46	20
30...	1050	104	19	5.3
30...	1705	120	29	9.4

02456330 CROOKED CREEK NEAR MORRIS, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAR				
30...	2050	104	23	6.5
31...	0505	80	12	2.6
31...	1655	60	3	.49
APR				
01...	0505	50	8	1.1
01...	1705	44	4	.48
02...	0500	40	6	.65
02...	1700	35	10	.94
02...	2300	35	126	12
02...	2350	35	162	15
03...	0135	73	198	39
03...	0205	91	605	149
03...	0220	124	1360	455
03...	0300	237	762	488
03...	0500	310	382	320
03...	0600	324	248	217
03...	0700	328	268	237
10...	1600	28	40	3.0
10...	1605	28	10	.76
10...	1705	27	9	.66
11...	0505	25	96	6.5

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
APR				
11...	1705	23	107	6.6
12...	0505	20	18	.97
12...	1705	21	4	.23
13...	0500	17	0	.00
13...	0650	17	1	.05
13...	1440	3.6	13	.13
13...	1700	17	3	.14
14...	0420	2.8	5	.04
14...	0455	16	1	.04
14...	1620	3.0	13	.11
14...	1655	15	5	.20
15...	0420	2.8	4	.03
15...	0455	14	3	.11
15...	1620	2.6	5	.04
15...	1655	13	1	.04
16...	0420	2.3	157	.97
16...	0450	12	8	.26
16...	0920	2.2	11	.07
16...	1030	2.2	8	.05

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
APR				
16...	1102	2.2	16	.10
16...	1650	12	11	.36
16...	1720	2.2	11	.07
17...	0450	11	8	.24
17...	0520	2.0	16	.09
17...	0610	1.8	15	.07
17...	1650	10	7	.19
17...	2035	10	8	.22
19...	0955	9.2	8	.20
20...	0940	8.2	7	.15
20...	0942	8.2	8	.18
20...	1333	1.4	10	.04
22...	0845	38	682	70
22...	0905	38	718	74
22...	0945	33	459	41
22...	1150	31	141	12
22...	1715	38	461	47
22...	1720	38	475	49
23...	0040	15	137	5.5
23...	0515	12	41	1.3
23...	1715	7.9	40	.85

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
APR				
24...	0515	5.3	53	.76
24...	1715	5.3	86	1.2
25...	0515	3.2	59	.51
25...	1715	3.4	121	1.1
25...	2220	9.5	30	.77
26...	0130	16	29	1.3
26...	0510	8.2	95	2.1
26...	1715	4.8	220	2.9
27...	0510	3.8	87	.89
27...	1715	3.8	46	.47
28...	0510	3.0	32	.26
28...	1710	3.6	59	.57
29...	0510	3.0	28	.23
29...	1710	3.0	36	.29
30...	0510	2.3	30	.19
30...	1710	2.3	21	.13
MAY				
13...	1440	3.6	13	.13
14...	0420	2.8	5	.04

02456330 CROOKED CREEK NEAR MORRIS, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
MAY				
14...	1620	3.0	13	.11
15...	0420	2.8	4	.03
15...	1400	2.5	12	.08
15...	1620	2.6	5	.04
16...	0420	2.3	157	.97
16...	0920	2.2	11	.07
16...	1030	2.2	8	.05
16...	1102	2.2	16	.10
16...	1720	2.2	11	.07
17...	0520	2.0	16	.09
17...	0610	1.8	15	.07
20...	1333	1.4	10	.04
22...	0845	38	682	70
22...	0905	38	718	74
22...	0945	33	459	41
22...	1150	31	141	12
22...	1715	38	461	47
22...	1720	38	475	49
23...	0040	15	137	5.5
23...	0515	12	41	1.3
MAY				
23...	1715	7.9	40	.85
24...	0515	5.3	53	.76
24...	1715	5.3	86	1.2
25...	0515	3.2	59	.51
25...	1715	3.4	121	1.1
25...	2220	9.5	30	.77
26...	0130	16	29	1.3
26...	0510	8.2	95	2.1
26...	1715	4.8	220	2.9
27...	0510	3.8	87	.89
27...	1715	3.8	46	.47
28...	0510	3.0	32	.26
28...	1710	3.6	59	.57
29...	0510	3.0	28	.23
29...	1710	3.0	36	.29
30...	0510	2.3	30	.19
30...	1710	2.3	21	.13
31...	0510	1.9	25	.13
31...	1710	2.0	18	.10

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDFD SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
JUN				
01...	0235	1.9	22	.11
04...	1710	1.7	16	.07
05...	0510	1.2	21	.07
05...	1710	1.2	14	.05
06...	0510	1.1	24	.07
06...	1710	1.1	12	.04
07...	0510	.90	20	.05
07...	1710	.90	20	.05
08...	0510	.80	17	.04
08...	1710	.90	11	.03
09...	0505	.90	20	.05
09...	1710	.80	12	.03
10...	0510	.80	20	.04
10...	1032	.80	13	.03
10...	1710	.80	15	.03
11...	0510	.70	16	.03
11...	1710	.70	15	.03
12...	0510	.70	13	.02
12...	1710	.70	16	.03
13...	0510	.70	18	.03
JUN				
13...	1710	.70	12	.02
14...	0510	.70	17	.03
14...	1715	.70	14	.03
15...	0510	.60	18	.03
15...	1715	.70	13	.02
16...	0510	.70	16	.03
16...	0740	.70	17	.03
16...	0800	.70	13	.02
16...	1630	.70	17	.03
17...	0435	.70	20	.04
17...	1635	.70	18	.03
18...	0435	.80	18	.04
18...	1635	1.2	22	.07
19...	0435	1.0	17	.05
19...	1640	1.2	20	.06
19...	1855	1.2	54	.17
20...	0335	1.2	38	.12
20...	0355	1.2	22	.07
20...	1355	1.8	16	.08

02456330 CROOKED CREEK NEAR MORRIS, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JUN				
21...	0440	1.2	9	.03
21...	1640	.90	9	.02
22...	0440	.90	11	.03
22...	1640	.70	16	.03
23...	0440	.80	18	.04
23...	1645	.80	13	.03
24...	0010	1.8	421	2.0
24...	0400	1.7	37	.17
24...	0440	20	196	11
24...	0450	21	16	.91
24...	0620	17	16	.73
24...	1645	2.5	13	.09
24...	2010	8.2	15	.33
25...	0445	1.1	4	.01
25...	1645	1.2	14	.05
26...	0445	1.0	14	.04
26...	1650	1.0	14	.04
27...	0450	.90	13	.03
27...	1650	.80	14	.03
28...	0450	.70	16	.03
28...	1647	.70	12	.02
JUN				
28...	1650	.70	11	.02
29...	1655	.70	11	.02
30...	0450	.60	13	.02
30...	1655	.60	12	.02
JUL				
01...	0452	.60	11	.02
01...	0455	.60	17	.03
01...	1655	.60	15	.02
02...	0455	.60	16	.03
02...	1700	.60	16	.03
03...	0455	.60	13	.02
03...	1455	.60	15	.02
04...	0245	.60	15	.02
04...	1445	.60	13	.02
05...	0250	.60	17	.03
05...	1450	.60	12	.02
06...	0250	.60	12	.02
06...	1450	.50	15	.02
07...	0250	.50	12	.02
JUL				
07...	1145	.50	12	.02
07...	1445	.50	9	.01
08...	1145	.50	11	.01
08...	2345	.60	8	.01
09...	0850	.50	9	.01
09...	2050	.50	16	.02
12...	1230	.60	18	.03
12...	1435	.50	20	.03
12...	1620	.50	21	.03
13...	0415	.50	16	.02
13...	1620	.50	18	.02
14...	0420	.50	21	.03
14...	1620	.50	17	.02
15...	0420	.50	17	.02
15...	1625	.50	18	.02
16...	0425	.50	8	.01
16...	1635	.50	17	.02
17...	0430	.50	18	.02
17...	1630	.50	15	.02
18...	0430	.50	12	.02
JUL				
18...	1635	.50	18	.02
19...	0430	.50	22	.03
19...	1730	1.6	54	.23
19...	1925	1.6	22	.10
20...	0435	.90	11	.03
20...	1635	.70	11	.02
21...	0435	.70	8	.02
21...	1640	.70	9	.02
22...	0440	.70	11	.02
22...	1640	.70	12	.02
23...	0440	.70	11	.02
23...	1645	.70	12	.02
24...	0440	.70	7	.01
24...	1645	.70	9	.02
25...	1515	1.7	12	.06
26...	0445	.70	11	.02
26...	2240	1.7	21	.10
27...	0445	1.1	12	.04
27...	1645	.90	11	.03
JUL				
28...	0445	.90	11	.03
28...	1645	1.3	74	.26
28...	1710	1.3	17	.06
29...	0455	1.6	15	.06
JUL				
29...	1655	1.3	18	.06
29...	1830	1.9	45	.23

02456500 LOCUST FORK AT SAYRE, AL

LOCATION.--Lat 33°42'35", long 86°59'00", in NW¼ sec. 29, T. 15 S., R. 4 W., Jefferson County, Hydrologic Unit 03160111, on right downstream side of bridge on county road at Sayre, 1.5 mi (2.4 km) downstream from Camp Creek, and at mile 33.9 (54.5 km).

DRAINAGE AREA.--887 mi^2 (2,297 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1928 to March 1932 (published as "near Warrior"). October 1941 to current year. Monthly discharge only for July 1928 and low-water periods October 1941 to September 1945, published in WSP 1304.

REVISED RECORDS.--WSP 1142: 1943(M). WSP 1304: 1929(M). WSP 1384: Drainage area. WSP 1434: 1943.

GAGE.--Water-stage recorder. Datum of gage is 258.64 ft (78.833 m) above mean sea level (levels by Corps of Engineers). Prior to March 1932, nonrecording gage at site 9 mi (14.5 km) upstream, at different datum. May 11, 1942, to June 30, 1949, nonrecording gage at present site and datum.

REMARKS.--Water-discharge records good. Diversion above station subsequent to 1938 from Inland Reservoir, usable capacity 60,000 acre-ft (74.0 hm^3) on Blackburn Fork for industrial water supply for city of Birmingham.

AVERAGE DISCHARGE.--39 years (water years 1928-31, 1941-77), 1,394 ft^3/s (39.48 m^3/s), 21.34 in/yr (542 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,300 ft^3/s (1,570 m^3/s) Jan. 7, 1949, gage height, 47.9 ft (14.60 m); maximum gage height, 48.60 ft (14.813 m) Feb. 23, 1961; minimum discharge, 17 ft^3/s (0.48 m^3/s) Sept. 28, Oct. 2, 1931.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 17,000 ft^3/s (481 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 14	0800	24800	702	30.42	9.272	Apr. 6	1200	*33900	960	*36.54	11.137

Minimum daily discharge, 60 ft^3/s (1.70 m^3/s) Sept. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	151	180	520	1180	1070	1890	5060	615	195	105	157	69
2	131	160	450	1070	1020	2410	3780	572	181	97	148	67
3	128	140	400	1010	990	4500	6590	568	162	100	184	65
4	116	120	350	1210	949	7480	14100	551	147	95	139	62
5	105	110	350	1370	882	8480	29400	585	141	145	128	60
6	95	95	450	1340	811	9360	33300	560	132	128	125	62
7	100	90	450	2210	761	10900	22200	515	118	103	114	3210
8	111	85	400	2910	734	6780	6130	506	109	95	100	5460
9	108	95	370	4500	717	4750	4160	615	105	97	87	1910
10	80	120	350	11600	704	3620	3230	515	106	103	82	1170
11	80	150	350	7840	741	2980	2630	412	104	139	72	688
12	95	200	5000	4480	799	9370	2170	349	105	119	69	662
13	105	250	2800	3280	796	20300	1860	313	103	103	67	490
14	110	400	2280	3540	743	23700	1630	295	95	84	62	412
15	134	400	1670	5250	685	11500	1440	292	92	87	84	619
16	134	350	1670	4170	649	4760	1270	280	100	84	128	913
17	134	250	1470	3070	635	3580	1100	256	113	79	131	1000
18	105	210	1170	2450	613	2930	980	235	128	84	178	1450
19	100	200	980	2070	593	2500	895	226	168	92	142	970
20	95	180	1400	1770	569	2230	804	211	176	95	122	746
21	110	160	3340	1480	557	2320	746	193	150	95	131	572
22	110	150	2450	1300	2570	4410	763	310	123	87	119	502
23	110	140	1720	1940	7170	4620	1250	447	127	89	95	405
24	139	140	1360	2340	4370	3540	1940	280	183	217	134	339
25	160	200	1420	1990	3130	2840	1910	259	282	196	217	370
26	181	350	3210	1750	5650	2330	1450	319	288	205	160	1770
27	140	800	3130	1670	4180	1990	1090	229	211	259	193	2130
28	130	1000	2210	1480	2670	1840	899	246	181	178	217	2800
29	150	800	1730	1320	---	2510	772	348	131	391	134	2030
30	180	650	1400	1230	---	6640	693	262	119	336	103	3130
31	200	---	1250	1140	---	7710	---	226	---	211	84	---
TOTAL	3827	8175	46100	83960	45758	184770	154242	11590	4375	4298	3906	34133
MEAN	123	273	1487	2708	1634	5960	5141	374	146	139	126	1138
MAX	200	1000	5000	11600	7170	23700	33300	615	288	391	217	5460
MIN	80	85	350	1010	557	1840	693	193	92	79	62	60
CFSM	.14	.31	1.68	3.05	1.84	6.72	5.80	.42	.17	.16	.14	1.28
IN.	.16	.34	1.93	3.52	1.92	7.75	6.47	.49	.18	.18	.16	1.43

CAL YR 1976 TOTAL 655656 MEAN 1791 MAX 26200 MIN 80 CFSM 2.02 IN 27.50
WTR YR 1977 TOTAL 585134 MEAN 1603 MAX 33300 MIN 60 CFSM 1.81 IN 24.54

02456500 LOCUST FORK AT SAYRE, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1970 (partial-record station), October 1970 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965, 1966, 1967, and 1968.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
MAR											
31...	6890	80	6.5	16.5	9.3	33	17	8.1	3.2	2.6	.2
AUG											
29...	125	305	7.5	27.5	5.7	130	71	22	19	7.6	.3

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)
MAR											
31...	1.2	20	0	14	3.8	.1	2.9	48	893	.56	2.5
AUG											
29...	2.7	76	0	71	4.0	.1	4.0	174	58.7	1.3	5.8

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
MAR										
31...	1	<1	ND	1	120	<1	14	<.2	30	<5
AUG										
29...	1	<1	ND	2	30	1	400	.2	90	10

02457000 FIVEMILE CREEK AT KETONA, AL

LOCATION.--Lat 33°36'05", long 86°45'20", in NW¼ sec. 33, T. 16 S., R. 2 W., Jefferson County, Hydrologic Unit 03160111, near center of stream on downstream side of foot bridge at Ketona, 0.6 mi (1.0 km) downstream from Barton Branch, 0.9 mi (1.4 km) downstream from Tarrant Spring Branch, and 2 mi (3.2 km) northwest of Tarrant City.

DRAINAGE AREA.--22.8 mi^2 (59.1 km^2).

PERIOD OF RECORD.--August 1953 to September 1958. October 1958 to November 1974 (annual maximums only). December 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is 546.70 ft (166.634 m) above mean sea level.

REMARKS.--Records good except those above 1000 ft^3/s (28.3 m^3/s), which are fair, and those for period of no gage-height record, Dec. 20 to Jan. 25, which are poor. Records of specific conductance and water temperatures for the water year 1977 are published under miscellaneous water-quality sites in this report. Recording rain gage at station.

AVERAGE DISCHARGE.--7 years (water years 1954-58, 1976-77), 33.6 ft^3/s (0.952 m^3/s), 20.01 in/yr (508 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,970 ft^3/s (141 m^3/s) Mar. 19, 1970, gage height, 14.94 ft (4.554 m); minimum daily, 4.8 ft^3/s (0.14 m^3/s) Nov. 2, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,500 ft^3/s (42.5 m^3/s) (revised) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 12	1315	2690	76.2	7.31	2.228	Sept. 7	0430	*4890	138	*10.98	3.347
Apr. 4	1900	4410	125	10.18	3.103	Sept. 30	1130	2480	70.2	6.95	2.118

Minimum, 8.5 ft^3/s (0.24 m^3/s) Sept. 2, 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	13	14	18	27	24	67	22	17	11	14	8.6
2	12	12	13	17	26	39	59	22	16	12	13	8.5
3	12	11	12	30	25	44	984	21	16	11	13	8.5
4	11	11	12	25	25	248	1100	33	15	11	12	8.7
5	11	11	11	20	23	107	405	22	15	11	12	8.6
6	12	11	15	40	21	467	163	21	14	11	11	20
7	12	11	29	30	21	125	108	21	14	11	11	560
8	12	11	16	25	20	79	79	21	14	10	11	28
9	13	11	14	350	20	62	64	21	14	23	12	19
10	11	11	14	100	19	52	55	19	13	15	12	16
11	11	11	30	50	19	50	50	18	13	11	10	16
12	11	12	88	35	30	732	44	18	13	11	10	13
13	11	11	35	30	25	171	41	18	14	11	10	18
14	11	31	24	70	20	95	39	18	15	11	19	24
15	11	22	37	40	18	69	36	18	13	11	16	68
16	11	14	23	35	18	56	34	17	12	11	13	52
17	11	13	20	30	17	48	32	17	13	10	13	23
18	11	12	18	28	17	44	31	17	13	10	10	17
19	11	11	17	26	17	40	29	17	18	14	9.9	23
20	12	12	90	24	17	38	28	16	18	12	9.7	16
21	11	12	25	23	16	292	27	22	14	10	9.6	14
22	11	11	20	22	70	119	61	37	12	12	9.5	13
23	10	11	19	80	200	70	67	19	12	11	15	13
24	11	11	17	50	100	55	32	17	15	12	13	12
25	19	11	150	40	50	48	27	18	13	70	11	113
26	12	11	30	30	180	43	25	21	16	17	9.5	60
27	11	11	25	25	100	39	24	18	14	13	11	24
28	11	32	23	61	70	92	23	87	11	190	9.1	19
29	10	24	21	34	---	194	29	23	11	80	9.0	19
30	31	15	20	32	---	154	25	19	11	22	8.8	456
31	14	---	25	30	---	82	---	18	---	16	8.7	---
TOTAL	381	411	907	1450	1211	3778	3788	696	419	691	355.8	1698.9
MEAN	12.3	13.7	29.3	46.8	43.3	122	126	22.5	14.0	22.3	11.5	56.6
MAX	31	32	150	350	200	732	1100	87	18	190	19	560
MIN	10	11	11	17	16	24	23	16	11	10	8.7	8.5
CFSM	.54	.60	1.29	2.05	1.90	5.35	5.53	.99	.61	.98	.50	2.48
IN.	.62	.67	1.48	2.37	1.98	6.16	6.18	1.14	.68	1.13	.58	2.77

CAL YR 1976 TOTAL 19252.0 MEAN 52.6 MAX 1040 MIN 10 CFSM 2.31 IN 31.41
WTR YR 1977 TOTAL 15786.7 MEAN 43.3 MAX 1100 MIN 8.5 CFSM 1.90 IN 25.76

02458450 VILLAGE CREEK AT AVE. "W" IN ENSLEY, AL

LOCATION.--Lat 33°31'03", long 86°52'45", in S½NW¼ sec. 32, T. 17 S., R. 3 W., Jefferson County, Hydrologic Unit 03160111, near left bank on downstream side of Ave. "W" bridge over Village Creek, 0.55 mi (0.88 km) north of Interstate 59, in Ensley area of Birmingham, AL.

DRAINAGE AREA.--33.6 mi^2 (87.02 km^2).

PERIOD OF RECORD.--July 1975 to current year.

GAGE.--Water-stage recorder. Datum of gage is 505.16 ft (153.973 m) above mean sea level.

REMARKS.--Records fair. Records of specific conductance and water temperature for the water year 1977 are published under miscellaneous water-quality sites in this report. Recording rain gage at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,730 ft^3/s (162 m^3/s) Sept. 7, 1977, gage height, 13.26 ft (4.042 m); minimum, 16 ft^3/s (0.45 m^3/s) July 5, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,500 ft^3/s (99.1 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 23	2315	3790	107	9.53	2.905	Apr. 4	2045	5060	143	11.92	3.633
Mar. 12	1230	3710	105	9.38	2.859	Sept. 7	0330	*5730	162	*13.26	4.042

Minimum discharge, 16 ft^3/s (0.45 m^3/s) July 5.

REVISIONS.--The peak discharges and annual maximum (*) for the water year 1976 have been revised as shown in the following table, and supercede figures published in the report for 1976.

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 26	0330	3290	93.2	8.63	2.630	Mar. 30	0015	4110	116	10.11	3.082
Mar. 12	2045	3520	99.7	9.03	2.752	May 14	1945	*4390	124	*10.62	3.237
Mar. 15	unknown	3600	102	9.18	2.798	Sept.29	0745	3820	108	9.59	2.923

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	28	42	47	70	110	150	39	31	26	33	27
2	55	26	44	47	67	98	122	38	32	26	33	25
3	48	27	44	94	64	107	1460	41	32	23	41	23
4	48	27	41	59	66	391	2000	110	31	20	33	22
5	49	28	41	56	61	188	508	42	29	18	29	22
6	45	28	61	123	58	621	181	37	29	24	27	63
7	46	28	84	81	58	159	134	32	24	26	23	2070
8	44	29	51	64	57	125	108	119	23	37	24	89
9	45	29	49	987	52	110	86	49	25	45	27	52
10	35	31	50	127	49	102	78	37	26	25	26	47
11	37	35	87	95	51	110	73	37	23	57	21	44
12	40	40	159	83	91	1140	67	39	27	30	24	42
13	41	31	71	77	75	169	59	36	35	25	25	64
14	43	117	60	219	53	129	57	34	31	26	24	122
15	42	56	89	103	48	116	53	34	28	26	72	57
16	41	42	60	89	48	109	51	33	24	23	34	119
17	35	42	56	84	47	102	47	35	27	249	41	44
18	34	40	52	81	48	98	62	33	86	38	29	39
19	35	40	49	75	44	92	42	31	50	77	25	245
20	41	52	247	75	41	92	40	33	27	45	23	45
21	32	38	63	73	43	580	45	93	27	41	22	38
22	34	37	57	71	44	216	318	346	28	30	26	36
23	29	38	53	64	544	167	198	44	29	28	171	37
24	30	38	47	224	419	153	63	36	50	26	73	30
25	67	34	437	85	100	146	53	66	25	95	56	150
26	35	36	85	72	88	136	48	62	39	62	48	69
27	32	35	67	69	529	129	43	41	30	64	35	35
28	32	95	64	149	129	256	43	87	32	726	28	31
29	33	58	59	79	---	702	57	37	30	167	29	42
30	81	45	54	73	---	341	47	32	29	55	30	1200
31	28	---	69	72	---	158	---	40	---	36	28	---
TOTAL	1297	1230	2492	3697	3044	7152	6293	1773	959	2196	1160	4929
MEAN	41.8	41.0	80.4	119	109	231	210	57.2	32.0	70.8	37.4	164
MAX	81	117	437	987	544	1140	2000	346	86	726	171	2070
MIN	28	26	41	47	41	92	40	31	23	18	21	22
CFSM	1.24	1.22	2.39	3.54	3.24	6.88	6.25	1.70	.95	2.11	1.11	4.88
IN.	1.44	1.36	2.76	4.09	3.37	7.92	6.97	1.96	1.06	2.43	1.28	5.46

CAL YR 1976 TOTAL 37500 MEAN 102 MAX 1910 MIN 23 CFSM 3.04 IN 41.52
WTR YR 1977 TOTAL 36222 MEAN 99.2 MAX 2070 MIN 18 CFSM 2.95 IN 40.10

02460500 VILLAGE CREEK NEAR ADAMSVILLE, AL

LOCATION.--Lat 33°36'20", long 87°06'25", in E½ sec. 36, T. 16 S., R. 5 W., Jefferson County, Hydrologic Unit 03160111, on left bank at county road bridge, 0.2 mi (0.3 km) upstream from Canoe Creek, 3.5 mi (5.6 km) west of Adamsville, and at mile 8.0 (12.9 km).

DRAINAGE AREA.--84.1 mi^2 (217 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1953 to September 1958, October 1964 to September 1965, February 1973 to current year. Annual maximum only, water years 1959-64, 1966-71.

GAGE.--Water-stage recorder. Altitude of gage is 340 ft (104 m) (by barometer).

REMARKS.--Water-discharge record good. Considerable regulation by Tennessee Coal and Iron Railroad Company reservoir (usable capacity, 1.7 billion gallons (6.4 m^3) about 8 mi (13 km) upstream. Diversion for industrial use in the Birmingham area affect low flows.

AVERAGE DISCHARGE.--10 years (1954-58, 1965, 1974-77), 177 ft^3/s (5.013 m^3/s), 28.58 in/yr (726 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,700 ft^3/s (558 m^3/s) Mar. 19, 1970; gage height, 23.15 ft (7.056 m); minimum, no flow for many days during water years 1954-58.

EXTREMES OUTSIDE PERIOD OF RECORD.--A stage of about 21 ft (6.4 m) has been reached on several occasions, from information by local residents.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,000 ft^3/s (85 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 9	2100	4050	115	10.48	3.194	Apr. 4	2345	*7560	214	14.47	4.410
Feb. 24	0645	3440	97.4	9.63	2.935	Sept. 7	1315	5800	164	12.62	3.847
Mar. 30	0200	3100	87.8	9.11	2.777						

Minimum daily discharge, 48 ft^3/s (1.36 m^3/s) July 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	139	73	103	135	180	331	425	109	90	65	101	58
2	121	67	97	124	171	264	367	97	80	63	97	60
3	104	66	93	222	155	242	3090	100	79	58	104	60
4	90	68	89	205	152	1060	3450	223	76	51	89	54
5	96	68	83	174	143	507	3940	131	71	48	112	55
6	94	70	88	192	130	2100	847	104	66	52	78	61
7	91	70	214	442	122	792	536	93	76	60	71	3320
8	87	63	128	242	122	477	401	198	61	84	66	423
9	93	68	104	1640	118	357	315	283	63	127	60	184
10	76	65	99	1230	109	289	265	117	65	108	63	136
11	71	69	132	438	106	269	228	100	67	63	59	114
12	76	98	472	317	151	2470	205	95	60	103	55	96
13	85	79	393	264	191	1140	188	92	64	73	59	134
14	83	191	196	723	132	525	166	89	75	72	51	169
15	83	254	279	488	114	377	155	85	79	81	63	362
16	75	118	196	321	108	300	141	79	71	67	104	301
17	73	101	156	252	106	253	131	84	68	167	86	174
18	65	95	139	232	109	226	128	78	78	359	76	118
19	70	88	126	190	106	198	136	81	180	94	61	317
20	85	94	607	183	96	187	115	77	75	140	59	248
21	77	110	319	179	93	577	115	75	67	96	57	128
22	69	77	199	165	97	996	359	592	72	73	58	109
23	72	78	168	152	142	380	624	194	72	79	63	111
24	67	80	141	546	1800	293	280	114	126	98	277	88
25	121	78	677	315	442	248	162	100	80	168	86	118
26	136	71	677	242	298	212	143	160	74	248	75	712
27	75	82	286	213	1170	188	130	118	77	113	98	189
28	68	151	227	372	477	364	118	106	71	285	62	149
29	69	237	187	257	---	730	113	160	68	996	55	142
30	161	122	161	214	---	1640	153	87	70	230	60	1660
31	130	---	185	192	---	580	---	95	---	126	65	---
TOTAL	2802	2951	7021	10861	7140	18572	17426	4116	2321	4447	2470	9850
MEAN	90.4	98.4	226	350	255	599	581	133	77.4	143	79.7	328
MAX	161	254	677	1640	1800	2470	3940	592	180	996	277	3320
MIN	65	63	83	124	93	187	113	75	60	48	51	54
CFSM	1.08	1.17	2.69	4.16	3.03	7.12	6.91	1.58	.92	1.70	.95	3.90
IN.	1.24	1.31	3.11	4.80	3.16	8.21	7.71	1.82	1.03	1.97	1.09	4.36

CAL YR 1976 TOTAL 95794 MEAN 262 MAX 3960 MIN 48 CFSM 3.12 IN 42.37
WTR YR 1977 TOTAL 89977 MEAN 247 MAX 3940 MIN 48 CFSM 2.94 IN 39.80

02460500 VILLAGE CREEK NEAR ADAMSVILLE, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses: February 1972-June 1973, October 1976 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water years 1966, 1967, 1975, 1976.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)
DEC												
02...	90	442	7.7	8.0	8.7	150	0	40	12	25	.9	8.8
JAN												
21...	174	370	7.8	5.0	12.1	140	50	36	12	13	.5	5.3
MAR												
10...	276	325	7.4	13.0	10.4	130	54	35	10	10	.4	4.0
MAY												
20...	70	535	7.8	25.0	7.6	160	45	44	13	26	.9	27
JUN												
28...	72	446	7.3	27.5	4.2	140	17	36	11	37	1.4	9.4
AUG												
16...	107	430	7.4	27.0	3.7	150	44	39	12	25	.9	9.0
SEP												
16...	246	431	7.8	25.5	5.5	160	49	44	13	17	.6	9.3

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)
DEC											
02...	190	0	49	20	2.0	10	263	63.9	.59	2.6	1
JAN											
21...	110	0	57	9.8	.3	8.5	201	94.4	.79	3.5	2
MAR											
10...	92	0	62	8.0	.1	11	190	142	1.1	5.0	2
MAY											
20...	140	0	80	19	.6	9.8	297	56.1	1.9	8.2	3
JUN											
28...	150	0	68	22	.7	11	276	53.7	1.5	6.5	3
AUG											
16...	130	0	66	21	.6	13	265	76.6	3.4	15	4
SEP											
16...	140	0	--	15	.4	11	--	--	1.7	7.5	5

DATE	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	CHLOR-A PERIPHYTON CHROMOGRAPHIC FLUOROM (MG/M2)	CHLOR-B PERIPHYTON CHROMOGRAPHIC FLUOROM (MG/M2)
DEC											
02...	<1	1	1	290	1	470	ND	120	10	--	--
JAN											
21...	<1	<1	3	70	<1	370	ND	100	60	--	--
MAR											
10...	<1	1	3	30	<1	270	ND	90	30	--	--
MAY											
20...	1	ND	2	260	ND	350	<.2	150	60	--	--
JUN											
28...	<1	1	1	40	1	330	ND	110	50	--	--
AUG											
16...	<1	1	1	40	ND	91	<.2	150	120	--	--
SEP											
16...	ND	ND	1	240	<1	270	ND	150	20	.445	.379

02461500 VALLEY CREEK NEAR BESSEMER, AL

LOCATION.--Lat 33°25'09", long 86°58'58", in NE¼NE¼ sec. 5, T. 19 S., R. 4 W., Jefferson County, Hydrologic Unit 03160111, near left bank on downstream side of 19th Street bridge, 1.0 mi (1.6 km) downstream from Opossum Creek, 2.0 mi (3.2 km) west of Bessemer, at mile 40.13 (64.57 km).

DRAINAGE AREA.--51.0 mi^2 (132.1 km^2).

PERIOD OF RECORD.--January 1946 to December 1947 (gage heights and discharge measurements only), May 1974 to May 1975 (rainfall-runoff site, flood hydrograph only). June 1975 to current year.

GAGE.--Water-stage recorder. Datum of gage 438.64 ft (133.697 m) above mean sea level. May 2, 1974 to May 14, 1975, rainfall-runoff site at same site and datum.

REMARKS.--Records good. Records of specific conductance and water temperature for the water year 1977 are published under miscellaneous water-quality sites in this report. Recording rain gage at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,610 ft^3/s (272 m^3/s) Sept. 7, 1977, gage height, 16.23 ft (4.947 m); minimum, 32 ft^3/s (0.91 m^3/s) July 21, 1977.

EXTREMES OUTSIDE THE PERIOD OF RECORD.--Flood in February 1936 reached a stage of 18.6 ft (5.67 m) present site and datum (discharge not determined), from high-water marks.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 4,000 ft^3/s (113 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 9	1445	4540	129	12.95	3.947	Apr. 3	0400	5160	146	13.47	4.106
Feb. 24	0045	4170	118	12.61	3.844	Apr. 4	2215	8600	244	15.67	4.776
Mar. 12	1315	4460	126	12.88	3.926	Sept. 7	0800	*9610	272	*16.23	4.947
Mar. 29	2015	5260	149	13.55	4.130						

Minimum discharge, 32 ft^3/s (0.91 m^3/s) July 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	70	87	99	91	135	261	98	77	62	73	56
2	76	72	78	87	87	119	226	92	74	59	174	57
3	70	71	76	185	86	124	1960	96	71	58	177	54
4	66	66	74	116	85	558	2730	201	71	61	101	53
5	68	65	69	107	77	229	1100	101	69	64	96	53
6	72	65	81	227	77	1220	355	94	70	61	74	79
7	74	61	174	170	73	275	265	93	71	59	73	3170
8	67	64	87	118	73	191	209	232	72	62	70	201
9	79	69	80	1520	72	166	177	125	70	81	66	127
10	64	71	77	310	70	146	159	91	68	74	71	129
11	61	71	152	184	69	147	149	90	68	59	62	105
12	63	95	352	156	138	1320	139	89	65	68	61	90
13	62	65	171	142	108	300	132	86	64	50	63	123
14	62	278	118	453	84	201	127	84	76	136	97	334
15	61	139	197	179	78	165	122	78	70	234	119	170
16	63	85	116	143	77	144	119	79	64	81	81	250
17	60	75	104	128	76	133	110	81	64	324	68	107
18	56	72	98	120	74	127	116	79	214	123	71	92
19	60	72	89	117	75	115	117	79	179	97	70	442
20	83	100	502	108	72	116	101	83	70	82	66	125
21	64	77	142	106	68	920	112	80	74	53	61	101
22	59	69	120	98	67	302	670	407	72	67	57	92
23	57	70	111	93	387	174	396	106	72	63	203	88
24	56	71	101	386	766	146	158	87	199	63	176	85
25	196	71	679	134	149	133	127	100	94	226	66	182
26	88	75	210	118	124	120	112	117	94	124	97	426
27	67	77	145	109	780	111	110	94	65	77	90	127
28	65	202	128	172	164	300	105	123	68	226	65	99
29	63	133	115	103	---	1340	109	90	74	206	59	130
30	185	93	110	98	---	744	169	73	64	83	57	1030
31	78	---	126	96	---	270	---	87	---	88	57	---
TOTAL	2325	2664	4769	6182	4147	10491	10742	3415	2523	3171	2721	8177
MEAN	75.0	88.8	154	199	148	338	358	110	84.1	102	87.8	273
MAX	196	278	679	1520	780	1340	2730	407	214	324	203	3170
MIN	56	61	69	87	67	111	101	73	64	50	57	53
CFSM	1.47	1.74	3.02	3.90	2.90	6.63	7.02	2.16	1.65	2.00	1.72	5.35
IN.	1.70	1.94	3.48	4.51	3.02	7.65	7.84	2.49	1.84	2.31	1.98	5.96

CAL YR 1976 TOTAL 62906 MEAN 172 MAX 3010 MIN 56 CFSM 3.37 IN 45.88
WTR YR 1977 TOTAL 61327 MEAN 168 MAX 3170 MIN 50 CFSM 3.29 IN 44.73

02462000 VALLEY CREEK NEAR OAK GROVE, AL

LOCATION.--Lat 33°26'50", long 87°07'20", in NW¼ sec. 25, T. 18 S., R. 6 W., Jefferson County, Hydrologic Unit 03160112, at gaging station, near center of span on downstream side of highway bridge, 1,000 ft (305 m) downstream from Raccoon Branch, 1.5 mi (2.4 km) east of Oak Grove, and 10.5 mi (16.9 km) west of Bessemer.

DRAINAGE AREA.--145 mi^2 (376 km^2).

PERIOD OF RECORD.--February 1972 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965, 1966, and 1967.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
MAR											
31...	1440	310	7.2	17.5	9.5	100	38	25	9.7	13	.6
AUG											
31...	92	680	8.0	27.5	7.8	250	170	66	20	34	.9

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)
MAR											
31...	2.4	76	0	62	5.2	.2	6.9	165	642	.72	3.2
AUG											
31...	15	100	0	190	23	1.0	8.6	439	109	7.2	32

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
MAR										
31...	1	1	1	6	30	<1	390	<.2	80	20
AUG										
31...	2	ND	ND	2	10	1	180	.2	220	20

02462500 BLACK WARRIOR RIVER AT BANKHEAD LOCK AND DAM NEAR BESSEMER, AL

LOCATION.--Lat 33°27'30", long 87°21'15", in SE¼ sec. 22, T. 18 S., R. 8 W., Jefferson County, Hydrologic Unit 03160112, at abandoned lock wall 300 ft (91 m) above dam, 1.9 mi (3.1 km) downstream from Big Yellow Creek, 23 mi (37.0 km) northwest of Bessemer, and at mile 153.6 (297.1 km).

DRAINAGE AREA.--3,990 mi^2 (10,330 km^2).

PERIOD OF RECORD.--October 1976 to September 1977.

GAGE.--Water-stage recorder. Datum of gage is 173.5 ft (52.88 m) above mean sea level.

COOPERATION.--Records furnished by Alabama Power Company.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 94,800 ft^3/s (2,680 m^3/s) Apr. 5; maximum gage height, 81.9 ft (24.96 m) Jan. 9; minimum daily, 60 ft^3/s (1.70 m^3/s) Nov. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1960	1620	4810	2750	4220	12100	27600	1910	3250	2000	2870	1500
2	590	1300	3960	1550	2990	10300	15100	2840	1310	2310	1430	1330
3	890	410	970	6140	2230	9910	52300	2210	3270	1140	3710	700
4	530	410	650	5420	5270	37300	74300	2320	3200	690	3140	590
5	2260	650	470	5890	700	39700	94800	2820	700	2690	2860	650
6	2770	410	2590	5960	930	47900	69700	2680	1740	2370	1990	1590
7	2350	710	1040	8160	5450	34900	51800	1640	650	1980	650	10300
8	3760	2540	3410	10300	2270	25500	27900	1760	410	2120	2910	15100
9	2740	890	3150	22800	2690	15400	22200	2050	2310	1810	3180	5100
10	530	920	4200	46200	790	16500	18100	2200	2330	720	2510	800
11	590	410	300	29200	4560	12100	13900	1620	1650	2350	1890	1340
12	470	1280	6040	12500	300	57900	16900	1870	590	1780	1640	2860
13	300	770	9810	11000	410	60100	14000	2200	1880	3180	830	3700
14	590	1470	9010	13700	2810	54800	11000	420	2850	2350	590	4730
15	300	1640	5360	18900	3470	39800	10700	470	1770	1920	1830	4940
16	720	1960	6170	12300	3160	13900	9570	810	2460	830	2010	4900
17	530	1870	5020	10800	1820	15800	10100	4160	2760	240	1810	5200
18	530	1290	3390	10800	1350	10900	6780	2250	2660	4060	1700	710
19	590	1370	3080	9910	300	12700	7170	860	1900	2150	1640	5020
20	410	350	7430	9670	470	12400	7530	1570	2300	2130	530	3990
21	2630	410	10800	9390	3420	11600	6840	400	3530	1980	1250	3080
22	1500	1970	7090	8260	2430	21100	6320	590	2550	1080	1810	2760
23	410	1730	6250	6250	3340	15500	7250	2640	1710	180	1520	2410
24	470	900	4930	8610	28700	14500	7050	2450	3530	1880	1990	150
25	590	650	6250	13800	23800	11600	6590	2300	2200	2490	3570	1680
26	1570	650	11700	10400	11600	10900	3850	2460	1300	3190	4940	9960
27	770	60	11500	9780	18800	10100	3320	2500	2910	2910	4460	6940
28	840	1360	6800	8210	19100	10800	3840	3000	2260	3950	660	7430
29	1520	6520	6840	4000	---	12200	3710	2330	3160	8190	2070	6190
30	470	7800	5200	3190	---	30900	2490	3200	2280	3640	2360	10000
31	710	---	6390	5710	---	32700	---	1320	---	1240	950	---
TOTAL	34890	44320	164610	341550	157380	721810	612710	61850	65420	69550	65300	125650
MEAN	1125	1477	5310	11020	5621	23280	20420	1995	2181	2244	2106	4188
MAX	3760	7800	11700	46200	28700	60100	94800	4160	3530	8190	4940	15100
MIN	300	60	300	1550	300	9910	2490	400	410	180	530	150
CFSM	.28	.37	1.33	2.76	1.41	5.84	5.12	.50	.55	.56	.53	1.05
IN.	.33	.41	1.53	3.18	1.47	6.73	5.71	.58	.61	.65	.61	1.17

WTR YR 1977 TOTAL 2465040 MEAN 6754 MAX 94800 MIN 60 CFSM 1.69 IN 22.98

02462501 BLACK WARRIOR RIVER BELOW BANKHEAD LOCK AND DAM NEAR BESSEMER, AL
(formerly published as Black Warrior River at Bankhead Lock and Dam, near Bessemer)

LOCATION (REVISED).--Lat 33°27'25", long 87°21'18", in SE¼ sec. 22, T. 18 S., R. 8 W., Jefferson County, Hydrologic Unit 03160112, near left bank 300 ft (91 m) below dam, 2.0 mi (3.2 km) downstream from Big Yellow Creek, 23 mi (37.0 km) northeast of Bessemer, and at mile 153.6 (247.1 km).

DRAINAGE AREA.--3,990 mi^2 (10,330 km^2).

PERIOD OF RECORD.--December 1911 to current year (gage heights only). October 1971 to current year in reports of Geological Survey. December 1911 to September 1971 in files of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level. Prior to July 11, 1963, nonrecording gage at same site and datum. July 11, 1963 to September 30, 1976, at datum 173.50 ft (52.883 m) lower.

COOPERATION.--Records furnished by Corps of Engineers.

EXTREMES (0700) FOR PERIOD OF RECORD.--Maximum gage height, 194.00 ft (59.131 m) July 9, 1916; minimum, 179.60 ft (54.742 m) Oct. 15-Nov. 1, 1920.

EXTREMES (0700) FOR CURRENT YEAR.--Maximum gage height 191.99 ft (58.519 m) Mar. 13; minimum, 184.83 ft (56.336 m) Feb. 6.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 0700

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	186.16	186.84	186.55	186.60	186.93	186.10	186.28	187.33	186.66	186.89	187.24	186.88
2	186.40	186.89	186.29	186.42	186.80	185.90	185.67	186.45	187.21	186.95	186.63	186.62
3	186.44	186.33	186.26	186.35	186.89	186.21	186.30	186.12	186.75	186.76	186.73	186.83
4	186.52	186.52	186.35	186.20	186.74	186.66	187.37	186.70	186.74	187.10	186.80	186.78
5	187.25	186.80	186.87	186.52	186.62	188.98	189.40	186.70	186.61	186.84	186.88	186.71
6	186.44	186.49	186.60	186.54	184.83	189.10	187.10	186.90	186.94	187.03	186.85	187.03
7	186.51	186.52	186.84	186.30	185.78	189.10	188.00	186.69	186.64	186.64	186.65	186.81
8	186.30	186.63	186.85	187.42	186.30	187.00	187.50	186.90	186.81	186.75	186.99	186.51
9	186.10	186.45	186.45	186.28	186.43	187.00	186.80	186.90	186.74	186.80	186.63	186.59
10	186.57	186.48	186.07	188.42	185.51	186.00	186.70	186.57	186.72	186.99	186.84	186.65
11	186.65	186.57	186.75	188.09	186.21	185.90	186.00	186.62	186.48	186.65	186.78	186.93
12	186.80	186.75	186.26	185.83	186.53	186.73	187.00	186.86	186.60	186.84	186.66	186.71
13	186.51	186.41	186.61	186.63	186.21	191.99	187.02	186.69	186.72	187.05	186.71	186.78
14	186.45	186.27	186.48	185.95	186.86	191.88	186.90	186.97	186.50	186.78	186.80	186.48
15	186.51	186.46	186.56	186.00	186.49	189.29	186.21	186.97	186.48	186.84	186.72	186.59
16	186.13	186.53	186.40	186.05	186.49	186.52	187.16	186.53	186.84	186.68	186.99	187.08
17	186.54	186.52	185.90	185.82	186.27	186.46	186.67	186.70	186.65	186.44	186.93	186.85
18	186.60	186.53	186.20	185.80	186.86	186.17	186.20	186.52	186.87	186.58	186.65	186.92
19	186.48	186.35	186.09	186.49	186.47	186.16	186.25	186.75	186.71	186.80	186.71	186.71
20	186.36	186.41	186.51	186.89	186.82	185.95	187.25	186.64	186.45	186.65	186.79	186.92
21	186.38	186.32	186.25	186.04	186.85	185.93	187.01	186.90	186.86	186.90	186.81	187.06
22	186.89	186.79	186.14	186.24	186.63	186.55	186.80	186.81	186.93	186.60	186.89	186.72
23	186.76	186.23	186.75	186.41	186.52	185.83	186.48	186.73	186.76	186.80	186.75	186.56
24	186.76	186.14	186.16	186.21	187.19	186.95	186.52	186.85	186.63	186.59	186.62	186.70
25	186.95	186.21	186.81	186.22	186.91	186.21	186.45	186.82	186.86	186.82	186.66	186.90
26	186.32	186.82	186.65	185.99	187.16	186.05	186.71	186.56	186.70	186.60	186.59	186.59
27	186.79	186.75	186.22	186.45	186.81	186.25	186.79	186.72	186.68	186.47	186.71	186.73
28	187.00	186.83	186.09	186.86	186.55	186.41	186.76	186.55	186.74	186.40	186.53	186.53
29	186.14	186.53	186.59	186.30	---	186.22	186.70	186.58	186.75	186.93	186.60	186.80
30	186.46	186.42	186.76	186.52	---	187.00	186.64	186.59	186.91	186.67	187.00	186.02
31	186.45	---	186.78	186.27	---	187.31	---	186.97	---	186.80	187.24	---
MEAN	186.54	186.53	186.45	186.46	186.52	187.09	186.82	186.73	186.73	186.76	186.79	186.73
MAX	187.25	186.89	186.87	188.42	187.19	191.99	189.40	187.33	187.21	187.10	187.24	187.08
MIN	186.10	186.14	185.90	185.80	184.83	185.83	185.67	186.12	186.45	186.40	186.53	186.02

02462600 BLUE CREEK NEAR OAKMAN, AL

LOCATION.--Lat 33°31'17", long 87°29'07", in S½ sec. 33, T. 17 S., R. 9 W., Tuscaloosa County, Hydrologic Unit 03160112, on right downstream wingwall of culvert on State Highway 69, 1.5 mi (2.4 km) southwest of Wiley, 2 mi (3.2 km) upstream from McDuff Spring Branch, 14 mi (22.5 km) southwest of Oakman, and 12.6 mi (20.3 km) upstream from mouth.

DRAINAGE AREA.--5.32 mi^2 (13.78 km^2), revised.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1959 to September 1965, October 1976 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 420 ft (128 m) from topographic map.

REMARKS.--Water-discharge record good except those for periods of no gage-height record, Oct. 1 to Nov. 24, and May 13 to June 23 which are poor.

AVERAGE DISCHARGE.--7 years (1960-65, 1977), 9.19 ft^3/s (0.260 m^3/s), 23.46 in/yr (596 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,820 ft^3/s (108 m^3/s) Feb. 21, 1961, gage height, 7.16 ft (2.182 m); minimum, no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 400 ft^3/s (11.3 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 12	unknown	603	17.1	4.15	1.265	Apr. 4	1515	*3000	85.0	*6.93	2.112

Minimum discharge, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.16	.20	.62	2.7	7.6	25	18	.93	.18	.30	.43	.00
2	.14	.18	.50	2.4	6.6	12	17	.76	.16	.24	.30	.00
3	.12	.18	.36	4.2	6.5	15	182	.70	.14	.10	.50	.00
4	.12	.16	.30	4.8	6.1	200	263	.70	.12	.05	.24	.00
5	.10	.15	.27	4.8	5.2	70	103	.70	.11	.02	.13	.00
6	.15	.14	.30	8.9	4.3	130	43	.60	.10	.00	.06	1.7
7	.20	.14	.50	17	3.9	70	28	.55	.08	.00	.04	10
8	.17	.14	.62	13	3.6	40	20	.55	.07	.00	.02	.93
9	.15	.14	.50	139	3.6	20	15	.60	.06	.00	.01	.43
10	.13	.15	.43	54	3.3	10	12	.60	.06	.21	.00	.30
11	.12	.17	.62	27	3.3	9.0	9.2	.50	.05	.08	.00	.27
12	.11	.20	6.5	19	4.5	250	7.5	.40	.04	.02	.00	.24
13	.10	.25	5.1	14	4.4	59	6.1	.35	.04	.00	.00	.18
14	.10	.30	2.4	55	3.9	33	5.1	.30	.05	.00	.00	.43
15	.09	.35	3.2	36	3.6	23	4.5	.25	.04	.00	.27	.76
16	.09	.30	2.4	22	3.3	17	3.6	.24	.03	.00	.50	4.8
17	.09	.25	1.7	16	3.1	14	2.9	.22	.02	.02	.43	1.7
18	.08	.22	1.3	13	2.9	12	2.4	.20	.01	.13	.62	.93
19	.08	.22	1.2	11	2.7	9.3	2.1	.20	.01	.22	.27	.62
20	.08	.22	15	9.3	2.5	8.2	1.7	.20	.00	.16	.13	.62
21	.08	.23	8.2	6.5	2.3	16	1.3	.25	.00	.02	.06	.36
22	.07	.23	4.8	5.2	2.1	21	2.4	.30	.00	.00	.05	.30
23	.07	.22	3.2	4.9	15	18	2.4	.35	.00	.00	.13	.24
24	.07	.21	2.7	27	150	14	1.7	.40	3.6	.00	.18	.18
25	.15	.21	26	24	60	11	1.3	.35	3.9	.04	.18	.16
26	.20	.24	23	18	25	9.2	1.2	.25	1.3	.08	.16	2.9
27	.20	.43	13	14	10	7.9	1.1	.30	1.1	.08	.08	1.3
28	.16	2.7	8.5	15	50	13	1.2	.28	.93	.36	.03	1.2
29	.15	2.4	5.5	11	---	16	1.1	.23	.62	.43	.00	1.3
30	.18	1.1	4.2	10	---	23	1.1	.23	.43	.27	.00	1.9
31	.20	---	3.9	9.1	---	19	---	.20	---	.16	.00	---
TOTAL	3.91	12.03	146.82	617.8	399.3	1194.6	760.9	12.69	13.25	2.99	4.82	33.75
MEAN	.13	.40	4.74	19.9	14.3	38.5	25.4	.41	.44	.096	.16	1.13
MAX	.20	2.7	26	139	150	250	263	.93	3.9	.43	.62	10
MIN	.07	.14	.27	2.4	2.1	7.9	1.1	.20	.00	.00	.00	.00
CFSM	.02	.08	.89	3.74	2.69	7.24	4.77	.08	.08	.02	.03	.21
IN.	.03	.08	1.03	4.32	2.79	8.35	5.32	.09	.09	.02	.03	.24

WTR YR 1977 TOTAL 3202.86 MEAN 8.77 MAX 263 MIN .00 CFSM 1.65 IN 22.39

02462600 BLUE CREEK NEAR OAKMAN, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1976 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water years 1966-68.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	DISSOLVED OXYGEN (MG/L)
NOV							
03...	1045	.01	145	6.8	9.0	--	--
DEC							
07...	0945	.64	58	6.5	7.0	40	--
JAN							
06...	1445	5.8	43	6.2	7.0	--	--
09...	2345	100	25	6.4	9.0	--	--
14...	1325	70	--	6.4	--	--	--
MAR							
12...	1438	230	18	6.5	12.5	--	--
12...	1720	150	18	6.6	14.0	--	--
APR							
12...	1140	7.4	28	6.7	16.5	--	--
14...	1430	7.4	28	6.7	17.0	--	--
27...	1450	1.5	33	7.2	18.0	--	--
MAY							
11...	1315	3.5	--	--	18.0	--	--
18...	1250	2.4	52	6.3	23.0	--	--
JUN							
06...	1430	--	--	--	--	--	--
JUL							
21...	0830	.16	69	6.4	24.0	--	5.3
AUG							
18...	1320	1.1	246	6.2	24.5	--	7.5
19...	0800	.58	246	6.2	24.5	--	7.5
SEP							
19...	0900	.68	58	6.0	21.0	40	7.8
21...	0930	--	410	--	17.0	--	--

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFIDE (S) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	BENTHIC INVERTEBRATES WET WEIGHT (G/SQ METER)	CHLOR-A PERIPHYTON CHROMOGRAPHIC FLUOROM (MG/M2)	CHLOR-B PERIPHYTON CHROMOGRAPHIC FLUOROM (MG/M2)
NOV							
03...	18	0	--	47	--	--	--
DEC							
07...	11	0	.0	12	--	--	--
JAN							
06...	7	0	--	12	--	--	--
09...	4	0	--	6.6	--	--	--
14...	5	0	--	8.5	--	--	--
MAR							
12...	6	0	--	4.7	--	--	--
12...	9	0	--	4.4	--	--	--
APR							
12...	--	--	--	--	--	--	--
14...	--	--	--	--	.0	--	--
27...	--	--	--	6.0	--	--	--
MAY							
11...	--	--	--	--	--	--	--
18...	--	--	--	13	--	--	--
JUN							
06...	--	--	--	--	--	2.56	.390
JUL							
21...	24	0	--	14	--	--	--
AUG							
18...	8	--	--	110	--	--	--
19...	8	--	--	--	1.6	--	--
SEP							
19...	8	0	.0	18	--	--	--
21...	--	--	--	--	1.5	--	--

02462600 BLUE CREEK NEAR OAKMAN, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
DEC									
07...	18	9	2.8	2.6	2.6	.3	1.4	2.1	--
JAN									
09...	9	6	1.3	1.4	--	--	--	--	--
14...	12	8	2.5	1.5	--	--	--	--	30
MAR									
12...	4	0	.5	.6	1.3	.3	.8	--	--
12...	4	0	.5	.6	1.4	.3	.8	--	--
APR									
27...	10	--	1.6	1.5	3.0	.4	1.0	--	--
SEP									
19...	19	13	3.1	2.8	2.4	.2	1.5	2.4	45

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL ALUMINUM (AL) (UG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)
DEC								
07...	36	.06	--	30	--	60	--	20
JAN								
09...	--	--	--	--	--	40	--	--
14...	--	5.67	--	--	760	50	--	--
MAR								
12...	--	--	620	30	1000	30	50	20
12...	--	--	320	20	480	20	40	20
APR								
27...	--	--	140	50	250	50	20	20
SEP								
19...	44	.08	--	60	--	60	--	--

DATE	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)
DEC							
07...	.00	.01	.01	.13	.14	.01	.00
SEP							
19...	.01	.00	.01	.19	.20	.02	.00

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
DEC											
07...	1	0	3	0	0	2	.1	0	50	10	11

02462600 BLUE CREEK NEAR OAKMAN, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE	JAN 13,77	APR 14,77	MAY 11,77	AUG 19,77	SEP 21,77
TIME	2400	1430	1315	0800	0930
TOTAL COUNT	83	86	36	60	86
DIVERSITY: PHYLUM	0.2	0.5	1.1	0.2	0.1
.CLASS	0.4	1.0	1.6	0.3	0.3
..ORDER	2.4	2.9	2.8	2.0	2.3
...FAMILY	3.2	3.9	3.0	2.4	3.3
....GENUS	3.2	4.0	3.0	2.5	3.6
....GENUS-INSECTA	3.0	3.7	2.6	2.3	3.4
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT
ANNELIDA					
.OLIGOCHAETA					
..PLESIOPORA					
...TUBIFICIDAE					
....UNKNOWN GENUS	--	1	--	--	--
..UNKNOWN ORDER					
...UNKNOWN FAMILY					
....UNKNOWN GENUS	--	--	1	--	1
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT
ARTHROPODA (ARTHROPODS)					
.ARACHNOIDEA					
..HYDRACARINA					
...UNKNOWN FAMILY					
....UNKNOWN GENUS	--	10	2	1	--
.CRUSTACEA					
..DECAPODA					
...ASTACIDAE					
....CAMBARUS	--	--	2	--	--
..ISOPODA					
...ASELLIDAE					
....LIRCEUS	1	--	--	--	1
..PODOCOPA					
...UNKNOWN FAMILY					
....UNKNOWN GENUS	1	--	--	--	1
.INSECTA					
..COLEOPTERA					
...DRYOPIDAE					
....HELICHUS	2	4	--	3	6
...ELMIDAE					
....OPTIOSERVUS	--	--	--	--	1
....STENELMIS	--	4	3	2	8
...PSEPHENIDAE					
....ECTOPRIA	--	--	--	--	1
....PSEPHENUS	4	--	--	--	23
..DIPTERA					
...CHIRONOMIDAE					
....CONCHAPELOPIA	--	1	--	1	1
....CRICOTOPUS	--	--	1	--	--
....EUKIEFFERIELLA	2	--	--	--	--
....PARAMETRIOCNEMUS	--	1	--	--	--
....POLYPEDILUM	--	--	--	3	2
....PROCLADIUS	--	--	--	--	1
....RHEOTANYTARSUS	--	--	--	--	1
....TRICHOCLADIUS	--	--	--	1	--
...RHAGIONIDAE					
....ATHERIX	1	--	1	1	1
...SIMULIIDAE					
....PROSIMULIUM	7	--	--	--	--
....SIMULIUM	--	3	--	--	--
...TABANIDAE					
....TABANUS	--	--	1	--	--
...TIPULIDAE					
....HEXATOMA	--	1	--	--	1
....PSEUDOLIMNOPHILA	--	2	--	2	3
....TIPULA	3	1	--	--	--
..EPHEMEROPTERA					
...BAETIDAE					
....PSEUDOCLOEON	--	5	--	--	--
...EPHEMERELLIDAE					
....EPHEMERELLA	1	1	1	--	1
...HEPTAGENIIDAE					
....STENONEMA	26	20	9	1	4

02462600 BLUE CREEK NEAR OAKMAN, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE TIME	JAN 13,77 2400	APR 14,77 1430	MAY 11,77 1315	AUG 19,77 0800	SEP 21,77 0930
..MEGALOPTERANS					
...CORYDALIDAE					
....CORYDALUS	1	1	1	1	4
....NIGRONIA	1	--	--	--	--
..ODONATA					
...GOMPHIDAE					
....LANTHUS	--	3	--	5	7
..PLECOPTERA					
...CAPNIIDAE					
....ALLOCAPNIA	17	5	--	--	--
...NEMOURIDAE					
....NEMOURA	--	6	--	--	--
...PERLIDAE					
....ACRONEURIA	1	2	2	1	--
...PERLODIDAE					
....ISOGENUS	--	4	--	--	--
...TAENIOPTERYGIDAE					
....TAENIOPTERYX	9	--	--	--	--
..TRICHOPTERA					
...HYDROPSYCHIDAE					
....CHEUMATOPSYCHE	2	1	--	2	13
...PHILOPOTAMIDAE					
....CHIMARRA	1	1	--	34	5
...POLYCENTROPODIDAE					
....NYCTIOPHYLAX	--	1	--	--	--
...RHYACOPHILIDAE					
....RHYACOPHILA	--	2	1	--	--
MOLLUSCA (MOLLUSCS)					
.GASTROPODA					
..BASOMMATOPHORA					
...PLANORBIDAE					
....HELISOMA	--	1	--	--	--
..MESOGASTROPODA					
...PLEUROCERIDAE					
....PLEUROCERA	3	5	11	2	--

02462600 BLUE CREEK NEAR OAKMAN, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
NOV				
03...	1045	.01	2	.00
13...	1045	.07	2	.00
DEC				
07...	0945	.64	3	.01
JAN				
06...	1430	6.0	5	.08
06...	1438	6.0	5	.08
06...	1445	5.8	5	.08
09...	2325	99	12	3.2
09...	2345	100	12	3.2
14...	1325	70	10	1.9
14...	1335	70	13	2.5
MAR				
12...	1435	222	34	20
12...	1438	230	34	21
12...	1720	150	19	7.7
12...	1725	150	19	7.7
12...	1730	150	24	9.7
MAR				
12...	1738	150	19	7.7
12...	1739	150	16	6.5
12...	1740	150	17	6.9
12...	1742	150	17	6.9
12...	1749	150	20	8.1
APR				
12...	1345	5.5	1	.01
21...	1450	1.6	2	.01
MAY				
18...	1250	2.4	3	.02
JUL				
21...	0830	.16	12	.01
AUG				
18...	1320	1.1	1	.00
SEP				
06...	2330	40	617	67
19...	0900	.68	2	.00

02462951 BLACK WARRIOR RIVER AT HOLT LOCK AND DAM NEAR HOLT, AL

LOCATION.--Lat 33°15'11", long 88°26'57", in NW¼ sec. 2, T. 21 S., R. 9 W., Tuscaloosa County, Hydrologic Unit 03160112, on left bank 50 ft (15 m) upstream from lock and dam, 0.1 mi (0.2 km) downstream from Jim Mark Branch, 0.7 mi (1.1 km) upstream from Hurricane Creek, 2.0 mi (3.2 km) northeast of Holt, 3.2 mi (5.1 km) upstream from North River, and at mile 135.1 (217.4 km).

DRAINAGE AREA.--4,230 mi^2 (10,960 km^2).

PERIOD OF RECORD.--October 1976 to September 1977.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

COOPERATION.--Records furnished by Alabama Power Company.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 106,000 ft^3/s (3,000 m^3/s) Apr. 5; maximum gage height, 187.5 ft (57.15 m) Jan. 8; no flow July 17, 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1180	1430	5190	2490	4640	14000	29400	2380	3190	1900	2650	1300
2	1190	2110	3800	1910	3090	10400	17900	2290	2790	2470	1550	900
3	450	200	860	6190	2590	11400	61100	1720	3390	1030	3280	500
4	350	250	450	5290	5370	45600	84000	3060	2790	490	3700	350
5	2530	930	300	5650	830	46800	106000	2270	600	2260	3020	200
6	2780	300	2860	5720	1230	45600	74400	3070	2190	2320	1980	2220
7	2520	650	1930	7620	5860	38300	51400	1380	590	1680	400	10300
8	3800	2500	3310	11900	2270	28700	29500	2610	690	2160	3120	15700
9	1960	1120	3550	30400	2970	19700	26100	2090	2170	1760	3150	4970
10	400	1010	4120	50800	1610	17400	19300	2420	2270	1310	2240	550
11	620	300	300	33900	4250	14500	15600	1360	1200	2060	2070	1480
12	720	1590	5720	13300	250	64900	19800	2070	560	1610	1680	2910
13	500	1100	9970	12600	1180	64000	13900	1780	2040	3580	550	3890
14	710	890	10300	15900	3050	58600	10600	250	2100	2070	300	4940
15	300	1810	5640	20800	3620	41700	11400	400	1550	2230	1880	4910
16	450	2010	6040	14300	3590	15700	10600	1520	2400	1310	1620	5150
17	350	2010	4960	12700	1710	17900	10400	4060	2560	.00	1780	5280
18	570	1330	3230	10700	1170	11800	7430	2240	2370	3490	1570	790
19	1140	1320	2750	10400	350	14100	6680	890	1880	2220	1520	5050
20	350	300	7480	11200	710	12900	7530	930	2140	1760	450	3980
21	2030	350	10500	9230	3640	12600	6960	1130	3210	2130	1390	2940
22	1770	2110	9040	8510	2900	26600	7660	400	2400	1280	1870	2410
23	450	1820	5960	6710	3340	19300	7060	2640	1940	.00	1110	2860
24	450	940	4520	8090	33800	16700	7810	2410	3490	2130	2220	450
25	1300	400	6900	14400	26500	12300	6970	2630	2240	2980	3510	1240
26	1350	400	13400	10900	13300	12500	3820	2300	1430	3490	4590	10100
27	650	150	11700	10600	22000	10500	3360	2390	2260	3040	4410	7790
28	2070	1920	8190	10100	21500	11800	3760	2860	1940	3950	400	6700
29	1580	6580	6650	3580	---	14800	3950	2110	3100	8710	1980	6520
30	300	5190	5480	3240	---	35500	2680	3010	1970	4450	2360	11000
31	400	---	6100	5710	---	38400	---	1700	---	1050	980	---
TOTAL	35220	43020	171200	374840	177320	805000	667070	62370	63450	70920.00	63330	127380
MEAN	1136	1434	5523	12090	6333	25970	22240	2012	2115	2288	2043	4246
MAX	3800	6580	13400	50800	33800	64900	106000	4060	3490	8710	4590	15700
MIN	300	150	300	1910	250	10400	2680	250	560	.00	300	200
CFSM	.27	.34	1.31	2.86	1.50	6.14	5.26	.48	.50	.54	.48	1.00
IN.	.31	.38	1.51	3.30	1.56	7.08	5.87	.55	.56	.62	.56	1.12

WTR YR 1977 TOTAL 2661120.00 MEAN 7291 MAX 106000 MIN .00 CFSM 1.72 IN 23.40

02462952 BLACK WARRIOR RIVER BELOW HOLT LOCK AND DAM NEAR HOLT, AL
(Formerly published as Black Warrior River at Holt Lock and Dam near Holt)

LOCATION (REVISED).--Lat 33°15'10", long 87°27'05", in NW¼ sec. 2, T. 21 S., R. 9 W., Tuscaloosa County, Hydrologic Unit 03160112, at downstream end of lock, 0.2 mi (0.3 km) downstream from Jim Mack Branch, 0.6 mi (1.0 km) upstream from Hurricane Creek, 2.0 mi (3.2 km) northeast of Holt, 3.1 mi (5.0 km) upstream from North River, and at mile 135.0 (217.2 km).

DRAINAGE AREA.--4,230 mi^2 (10,960 km^2).

PERIOD OF RECORD.--July 1966 to current year (gage heights only). October 1971 to current year in reports of Geological Survey. July 1966 to September 1971 in files of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

COOPERATION.--Records furnished by Corps of Engineers.

EXTREMES (0700) FOR PERIOD OF RECORD.--Maximum gage height, 150.8 ft (45.96 m) Mar. 20, 1970; minimum, 121.0 ft (36.88 m) July 13, 1974.

EXTREMES (0700) FOR CURRENT YEAR.--Maximum gage height, 148.0 ft (45.11 m) Apr. 5; minimum, 122.2 ft (37.25 m) June 8, 9, 16.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 0700

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	123.40	122.80	124.50	123.60	123.40	126.90	130.50	123.30	123.30	122.40	123.10	122.70
2	123.80	123.20	123.30	123.50	123.50	126.30	126.50	123.30	123.70	122.40	123.20	122.80
3	123.20	123.00	123.30	123.50	123.60	126.50	133.40	123.20	123.40	122.60	123.10	122.70
4	123.01	122.80	123.10	123.50	123.40	127.70	136.90	123.40	122.30	122.30	123.30	122.60
5	122.80	122.70	123.00	123.50	123.50	132.30	148.00	123.20	122.60	122.40	122.90	122.90
6	123.20	123.20	123.00	123.50	123.40	133.70	142.70	123.10	122.40	122.50	122.90	122.70
7	123.20	122.60	123.50	123.90	123.30	131.20	138.90	123.20	122.60	122.70	122.90	124.30
8	123.40	123.20	123.30	126.40	123.40	130.80	133.10	123.20	122.20	122.80	122.90	128.50
9	123.50	123.20	123.30	126.00	123.40	128.30	129.20	123.60	122.20	122.80	122.90	123.40
10	123.00	123.20	123.30	134.20	123.40	127.70	128.10	123.30	122.60	122.60	122.90	123.10
11	123.00	123.00	123.50	131.50	123.40	126.60	127.30	123.20	122.40	122.80	122.80	122.70
12	123.20	123.40	123.30	127.40	123.40	126.60	126.20	123.10	122.80	122.70	123.10	123.60
13	123.20	123.10	125.80	126.60	123.40	138.50	126.60	123.20	122.30	122.70	123.20	123.40
14	123.00	123.20	126.10	126.60	123.40	135.50	126.10	123.20	122.50	122.80	122.70	123.40
15	123.20	123.50	123.80	128.70	123.20	134.50	126.00	122.80	122.50	122.80	122.80	123.00
16	123.30	123.20	123.60	127.80	123.40	127.90	125.90	123.00	122.20	122.80	123.00	123.20
17	123.20	123.30	123.90	126.70	124.00	133.00	125.90	123.20	122.40	122.70	122.80	123.10
18	123.20	123.20	123.60	126.10	123.40	126.40	126.40	123.10	122.70	122.50	122.80	123.10
19	123.20	123.40	123.20	126.20	123.30	126.50	123.60	123.10	122.80	122.80	123.10	123.50
20	123.20	123.10	123.00	126.00	123.20	126.60	123.80	123.00	123.10	122.70	123.40	123.10
21	123.10	123.20	126.00	125.80	123.40	126.20	123.80	123.00	123.10	122.70	123.10	123.10
22	123.20	122.90	126.20	125.80	123.30	129.50	124.00	123.10	122.50	122.80	122.70	123.50
23	123.00	123.20	123.60	123.60	123.30	129.20	123.70	123.00	122.40	122.50	123.00	122.90
24	123.10	123.50	123.60	125.20	129.20	127.40	125.10	123.30	123.10	123.20	122.90	122.80
25	123.10	123.10	123.70	127.20	129.50	126.50	124.00	122.40	122.60	122.60	123.10	122.90
26	123.30	122.90	127.10	126.40	126.80	126.60	123.70	122.50	122.50	123.00	123.00	125.30
27	123.30	123.20	126.50	126.10	127.80	126.00	123.40	123.40	122.70	123.00	122.90	125.50
28	123.00	123.10	126.20	126.10	128.20	126.00	123.20	123.30	122.40	123.00	122.90	123.60
29	123.20	123.60	123.70	123.80	---	126.10	123.40	123.40	122.50	125.40	122.90	123.70
30	123.10	123.40	123.70	124.40	---	132.90	123.30	123.30	122.40	123.20	122.80	125.90
31	123.30	---	123.60	125.60	---	131.30	---	123.20	---	123.50	122.80	---
MEAN	123.19	123.15	124.11	125.97	124.28	129.07	128.09	123.15	122.64	122.83	122.96	123.57
MAX	123.80	123.60	127.10	134.20	129.50	138.50	148.00	123.60	123.70	125.40	123.40	128.50
MIN	122.80	122.60	123.00	123.50	123.20	126.00	123.20	122.40	122.20	122.30	122.70	122.60

02462990 YELLOW CREEK NEAR NORTHPORT, AL

LOCATION.--Lat 33°22'23", long 87°28'26", in SW¼SW¼ sec. 22, T. 19 S., R. 9 W., Tuscaloosa County, Hydrologic Unit 03160112, on downstream side of county road bridge, 8.2 mi (13.2 km) north and 1.4 mi (2.3 km) west of Holt lock and dam on Black Warrior River, and at mile 12.8 (20.6 km).

DRAINAGE AREA.--8.23 mi^2 (21.32 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1976 to September 1977.

GAGE.--Water-stage recorder. Altitude of gage is 320 ft (98 m), from topographic map.

REMARKS.--Water-discharge record good. Recording rain gage at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 250 ft^3/s (7.08 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 12	1115	442	12.5	7.49	2.283	Sept. 7	0215	352	10.0	6.95	2.118
Apr. 4	1930	*834	23.6	*10.19	3.106						

Minimum daily discharge, 4.4 ft^3/s (0.12 m^3/s) Aug. 15, Sept. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.8	7.7	8.1	9.1	12	17	23	12	7.5	5.6	10	4.6
2	6.4	7.2	7.8	8.8	11	15	24	12	7.0	5.4	8.0	4.4
3	6.3	7.0	7.5	14	11	16	121	13	6.7	5.2	10	4.6
4	6.1	6.9	7.4	12	11	77	342	15	6.4	5.0	15	4.8
5	6.1	7.0	7.2	11	10	36	157	13	6.4	5.0	11	7.8
6	13	7.0	8.0	12	9.9	83	62	11	6.4	4.8	6.7	33
7	8.2	7.0	12	15	9.7	38	44	11	7.0	4.6	5.9	82
8	7.4	6.8	8.0	12	9.6	27	34	12	6.7	4.6	5.6	12
9	7.4	6.9	7.4	75	9.6	22	29	14	6.4	5.2	5.4	8.1
10	6.8	7.0	7.3	40	9.2	20	26	11	6.1	6.7	5.0	8.8
11	6.6	7.8	16	23	9.1	18	25	11	6.1	6.4	4.8	8.4
12	6.4	10	29	18	14	157	20	11	6.1	7.5	5.2	6.7
13	6.4	7.5	18	17	11	58	20	10	5.6	6.4	4.6	6.7
14	6.3	14	12	40	9.7	35	19	10	6.1	7.0	4.6	8.4
15	6.2	11	15	24	9.1	28	18	9.9	6.4	7.5	4.4	16
16	6.6	8.0	11	19	8.7	23	17	8.8	7.2	7.5	4.8	47
17	8.0	7.6	9.1	16	8.7	20	16	8.8	9.1	6.1	5.4	16
18	6.7	7.3	8.4	15	8.7	19	16	8.8	7.2	6.4	6.7	11
19	6.6	7.2	8.1	14	8.5	17	15	8.4	10	6.4	5.2	9.5
20	7.8	9.6	30	13	8.4	17	15	8.1	11	7.2	4.8	9.1
21	7.3	8.7	16	12	8.3	32	15	8.1	6.7	5.9	4.8	8.1
22	7.0	7.4	12	12	8.2	25	23	8.1	6.4	5.4	4.6	7.5
23	6.9	7.2	11	11	31	18	19	8.4	5.9	5.4	4.6	7.0
24	6.8	7.2	9.7	29	52	17	16	8.4	5.9	7.0	4.6	7.0
25	25	7.1	37	17	20	16	15	9.5	9.1	6.0	4.8	7.2
26	11	7.5	26	15	17	15	14	11	6.7	10	5.2	32
27	7.7	7.9	17	14	36	14	14	8.8	6.1	20	6.4	14
28	7.3	18	14	17	20	23	14	8.4	5.9	25	5.0	9.9
29	7.3	14	11	13	---	25	13	8.1	5.6	20	4.8	14
30	13	8.7	10	12	---	25	12	7.5	5.9	15	4.8	17
31	9.0	---	11	12	---	19	---	7.5	---	12	4.6	---
TOTAL	250.4	254.2	412.0	571.9	391.4	972	1198	312.6	205.6	252.2	187.3	432.6
MEAN	8.08	8.47	13.3	18.4	14.0	31.4	39.9	10.1	6.85	8.14	6.04	14.4
MAX	25	18	37	75	52	157	342	15	11	25	15	82
MIN	6.1	6.8	7.2	8.8	8.2	14	12	7.5	5.6	4.6	4.4	4.4
CFSM	.98	1.03	1.62	2.24	1.70	3.82	4.85	1.23	.83	.99	.73	1.75
IN.	1.13	1.15	1.86	2.58	1.77	4.39	5.41	1.41	.93	1.14	.85	1.96

WTR YR 1977 TOTAL 5440.2 MEAN 14.9 MAX 342 MIN 4.4 CFSM 1.81 IN 24.59

02462990 YELLOW CREEK NEAR NORTHPORT, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1976 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: November 1976 to current year.
WATER TEMPERATURES: November 1976 to current year.
SUSPENDED SEDIMENT: October 1976 to current year.

INSTRUMENTATION.--Specific conductance recorder since November 1976; temperature recorder since November 1976; automatic sediment sampler since October 1976.

REMARKS.--Interruptions in specific conductance and temperature data due to malfunctions of the equipment. Sediment samples are collected once daily during normal flow and with change in stage of one quarter of a foot. Samples are collected manually (ETR method) during selected events.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	DISSOLVED OXYGEN (MG/L)
NOV							
02...	1200	7.6	11	6.8	11.0	--	--
DEC							
10...	1115	7.4	11	6.3	6.0	10	--
20...	1450	39	18	5.4	10.5	--	--
JAN							
09...	1350	143	--	6.7	8.5	--	--
10...	0010	70	18	6.4	7.0	--	--
FEB							
10...	1130	9.2	12	6.8	8.0	--	--
MAR							
04...	0015	23	17	--	11.0	--	--
04...	0250	100	17	--	12.0	--	--
04...	0610	142	18	--	10.0	--	--
APR							
04...	1730	744	17	5.2	16.0	--	--
04...	1930	825	17	5.1	16.0	--	--
04...	2215	--	21	4.9	16.0	--	--
05...	0010	436	16	4.6	16.0	--	--
06...	--	23	--	--	17.5	--	--
MAY							
09...	0950	14	11	6.1	18.0	--	--
16...	1200	9.8	8	5.8	16.0	--	--
JUN							
06...	1030	--	--	--	--	--	--
20...	1530	10	10	6.0	23.0	--	--
21...	1000	7.1	--	6.1	21.0	--	--
JUL							
19...	1130	--	9	6.2	22.5	--	7.8
AUG							
17...	1130	6.1	12	6.2	23.0	--	8.1
SEP							
19...	0930	--	13	--	20.5	--	--
22...	1030	7.6	--	5.9	18.0	35	9.0

02462990 YELLOW CREEK NEAR NORTHPORT, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOL-VED SUL-FIDE (S) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	BENTHIC INVER-TEBRA-TES WET WEIGHT (G/SQ METER)	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)
NOV							
02...	5	0	--	1.4	--	--	--
DEC							
10...	3	0	.0	.7	--	--	--
20...	4	0	--	3.4	--	--	--
JAN							
09...	2	0	--	3.3	--	--	--
10...	3	0	--	3.4	--	--	--
FEB							
10...	--	--	--	--	--	--	--
MAR							
04...	2	0	--	2.4	--	--	--
04...	8	0	--	2.1	--	--	--
04...	7	0	--	2.8	--	--	--
APR							
04...	--	--	--	3.2	--	--	--
04...	--	--	--	3.1	--	--	--
04...	--	--	--	3.8	--	--	--
05...	--	--	--	3.7	--	--	--
06...	--	--	--	--	.0	--	--
MAY							
09...	--	--	--	--	.0	--	--
16...	--	--	--	--	--	--	--
JUN							
06...	--	--	--	--	--	10.3	.035
20...	--	--	--	--	.0	2.88	.397
21...	3	0	--	--	--	--	--
JUL							
19...	4	0	--	--	2.9	7.75	1.94
AUG							
17...	4	0	--	1.3	1.7	--	--
SEP							
19...	--	--	--	--	1.2	--	--
22...	2	0	.0	1.7	--	--	--

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
DEC										
10...	3	1	1.0	.1	.9	.2	.2	1.3	--	12
JAN										
09...	5	3	.7	.7	--	--	--	--	24	--
10...	4	2	.6	.6	--	--	--	--	--	--
FEB										
10...	--	--	--	--	--	--	--	--	--	--
MAR										
04...	5	3	1.3	.4	1.6	.3	.4	--	--	--
04...	5	0	1.3	.4	2.2	.4	.4	--	--	--
04...	6	0	1.5	.5	1.5	.3	.5	--	--	--
APR										
04...	6	--	1.5	.5	.8	.1	.7	--	--	--
04...	6	--	1.6	.5	.8	.1	.8	--	--	--
04...	5	--	1.4	.3	5.2	1.0	.7	--	--	--
05...	--	--	.8	--	1.0	--	.7	--	--	--
MAY										
16...	1	--	.4	.1	1.4	.5	.1	--	--	--
JUN										
21...	--	--	--	--	--	--	.2	--	--	12
SEP										
22...	3	1	.5	.4	1.4	.4	.3	1.4	--	14

02462990 YELLOW CREEK NEAR NORTHPORT, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL ALUM-INUM (AL) (UG/L)	DIS-SOLVED ALUM-INUM (AL) (UG/L)	TOTAL ALUMI-NUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MA-TERIAL (UG/G)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)
DEC									
10...	.24	--	20	--	--	40	--	--	20
JAN									
09...	9.27	--	--	--	--	180	--	--	--
10...	--	--	--	--	--	400	--	--	--
FEB									
10...	--	80	30	450	260	70	2000	--	--
MAR									
04...	--	1500	110	--	5600	40	--	70	30
04...	--	1300	90	--	5600	80	--	190	20
04...	--	1300	110	--	2500	120	--	130	50
APR									
04...	--	1600	110	--	2400	240	--	150	100
04...	--	1600	110	--	2300	280	--	150	110
04...	--	1300	130	--	1800	210	--	130	80
05...	--	940	90	--	1300	190	--	110	90
MAY									
16...	--	--	0	--	--	20	--	--	0
JUN									
21...	.23	--	--	--	--	--	--	--	--
SEP									
22...	.29	--	100	--	--	200	--	--	--

DATE	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)
DEC							
10...	.02	.00	.02	.14	.16	.00	.00
SEP							
22...	.01	.00	.01	.22	.23	.01	.00

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
DEC											
10...	1	0	3	0	0	0	.1	0	40	5	12
FEB											
10...	1	0	0	0	1	3	.1	0	0	10	2.0

DATE	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM MA-TERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	TOTAL IRON IN BOTTOM MA-TERIAL (UG/G)
FEB										
10...	1	0	<10	<10	30	0	<10	2	<10	2000

DATE	TOTAL LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	TOTAL SELE-NIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL STRON-TIUM (SR) (UG/L)	TOTAL STRON-TIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)
FEB									
10...	3	40	.2	0	0	<10	10	0	<10

02462990 YELLOW CREEK NEAR NORTHPORT, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE	JAN 11,77	APR 6,77	MAY 9,77	JUN 20,77
TIME	2400	0000	0950	1530
TOTAL COUNT	85	35	68	166
DIVERSITY: PHYLUM	0.0	0.0	0.1	0.1
.CLASS	0.0	0.0	0.2	0.2
..ORDER	2.0	1.6	2.1	2.3
...FAMILY	2.8	2.8	3.3	3.1
....GENUS	3.4	3.3	3.5	3.4
....GENUS-INSECTA	3.4	3.3	3.4	3.3
ORGANISM	COUNT	COUNT	COUNT	COUNT
ANNELIDA				
.OLIGOCHAETA				
..PROSOPORA				
...BRANCHIOBDELLIDAE				
....UNKNOWN GENUS	--	-	--	1
..UNKNOWN ORDER				
...UNKNOWN FAMILY				
....UNKNOWN GENUS	--	--	1	--
ARTHROPODA (ARTHROPODS)				
.ARACHNOIDEA				
..HYDRACARINA				
...UNKNOWN FAMILY				
....UNKNOWN GENUS	--	--	1	1
.CRUSTACEA				
..DECAPODA				
...ASTACIDAE				
....CAMBARUS	--	--	--	1
.INSECTA				
..COLEOPTERA				
...CURCULIONIDAE				
....UNKNOWN GENUS	--	--	--	1
...DRYOPIDAE				
....HELICHUS	--	--	--	1
...ELMIDAE				
....OPTIOSERVUS	7	--	2	5
....OULIMNIUS	--	--	--	--
....STENELMIS	--	--	--	4
...HYDROPHILIDAE				
....HELOCOMBUS	--	--	1	--
...PTILODACTYLIDAE				
....ANCHYTARSUS	8	--	--	--
..DIPTERA				
...CERATOPOGONIDAE				
....FORCIPOMYIA	--	--	--	1
....UNKNOWN GENUS	1	--	--	--
...CHIRONOMIDAE				
....CONCHAPELOPIA	1	1	--	--
....CRICOTOPUS	--	--	--	1
....EUKIEFFERIELLA	2	--	--	--
....HETEROTRISSOCLADIUS	--	--	1	--
....PARAMETRIOCNEMUS	--	--	--	1
....PENTANEURA	--	--	--	--

02462990 YELLOW CREEK NEAR NORTHPORT, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE	JAN 11,77	APR 6,77	MAY 9,77	JUN 20,77
TIME	2400	0000	0950	1530
ORGANISM	COUNT	COUNT	COUNT	COUNT
....PHAENOPSECTRA	1	--	--	--
....POLYPEDILUM	--	4	--	2
....RHEOTANYTARSUS	--	--	--	--
....SMITTIA	2	--	--	--
....TANYTARSUS	--	--	--	--
....TRICHOCLADIUS	--	--	--	--
....UNKNOWN GENUS	1	--	--	--
....ZAVRELIA	--	--	--	--
...SIMULIIDAE				
....SIMULIUM	--	5	3	1
...TABANIDAE				
....TABANUS	--	--	3	--
...TIPULIDAE				
....ANTOCHA	--	3	--	--
....DICRANOTA	--	5	5	--
....HEXATOMA	1	2	2	2
....TIPULA	--	--	3	--
....UNKNOWN GENUS	--	--	--	--
..EPHEMEROPTERA				
...BAETIDAE				
....BAETIS	--	--	--	--
....PSEUDOCLOEON	--	--	1	4
....UNKNOWN GENUS	--	1	--	--
...CAENIDAE				
....CAENIS	--	--	--	1
...HEPTAGENIIDAE				
....EPEORUS	--	--	--	--
....STENONEMA	2	--	4	12
...LEPTOPHLEBIIDAE				
....HABROPHLEBIODES	--	1	2	3
..HEMIPTERA				
...VELIIDAE				
....MICROVELIA	--	--	--	2
....RHAGOVELIA	--	--	--	--
..MEGALOPTERANS				
...CORYDALIDAE				
....CORYDALUS	--	--	--	2
....NIGRONIA	2	--	--	1
...SIALIDAE				
....SIALIS	--	--	--	--
..ODONATA				
...CORDULEGASTRIDAE				
....CORDULEGASTER	--	--	--	--
...GOMPHIDAE				
....LANTHUS	--	--	--	1
..PLECOPTERA				
...CAPNIIDAE				
....ALLOCAPNIA	--	2	1	25
...PELTOPERLIDAE				
....PELTOPERLA	5	1	11	5
...PERLIDAE				
....ACRONEURIA	25	4	19	20
....NEOPERLA	9	--	--	--
....PERLESTA	--	--	--	2
...UNKNOWN FAMILY				
....UNKNOWN GENUS	2	--	--	--
..TRICHOPTERA				
...BRACHYCENTRIDAE				
....MICRASEMA	--	--	--	--
...HELICOPSYCHIDAE				
....HELICOPSYCHE	--	--	--	--
...HYDROPSYCHIDAE				
....CHEUMATOPSYCHE	13	6	6	61
....DIPLECTRONA	--	--	--	--
....HYDROPSYCHE	--	--	--	2
...HYDROPTILIDAE				
....MAYATRICHIA	--	--	--	--
...ODONTOCERIDAE				
....PSILOTRETA	1	--	--	--
...PHILOPOTAMIDAE				
....CHIMARRA	--	--	--	2
...RHYACOPHILIDAE				
....RHYACOPHILA	1	--	2	1
..DIPTERA				
...CHIRONOMIDAE				
....PSECTROCLADIUS	1	--	--	--

02462990 YELLOW CREEK NEAR NORTHPORT, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE	JUL 19,77	AUG 17,77	SEP 19,77
TIME	1130	1130	0930
TOTAL COUNT	167	52	175
DIVERSITY: PHYLUM	0.0	0.1	0.1
.CLASS	0.3	0.3	0.2
..ORDER	2.4	2.7	2.4
...FAMILY	3.3	3.6	3.5
....GENUS	3.8	4.1	4.0
....GENUS-INSECTA	3.7	4.0	3.9
ORGANISM	COUNT	COUNT	COUNT
ANNELIDA			
.OLIGOCHAETA			
..PROSOPORA			
...BRANCHIOBDELLIDAE			
....UNKNOWN GENUS	--	--	--
..UNKNOWN ORDER			
...UNKNOWN FAMILY			
....UNKNOWN GENUS	--	1	2
ARTHROPODA (ARTHROPODS)			
.ARACHNOIDEA			
..HYDRACARINA			
...UNKNOWN FAMILY			
....UNKNOWN GENUS	7	1	--
.CRUSTACEA			
..DECAPODA			
...ASTACIDAE			
....CAMBARUS	--	--	4
.INSECTA			
..COLEOPTERA			
...CURCULIONIDAE			
....UNKNOWN GENUS	--	--	--
...DRYOPIDAE			
....HELICHUS	--	--	--
...ELMIDAE			
....OPTIOSERVUS	10	4	7
....OULIMNIUS	--	--	1
....STENELMIS	5	2	--
...HYDROPHILIDAE			
....HELOCOMBUS	--	--	--
...PTILODACTYLIDAE			
....ANCHYTARSUS	4	1	6
..DIPTERA			
...CERATOPOGONIDAE			
....FORCIPOMYIA	--	--	--
....UNKNOWN GENUS	--	--	3
...CHIRONOMIDAE			
....CONCHAPELOPIA	1	--	1
....CRICOTOPUS	--	1	--
....EUKIEFFERIELLA	--	--	--
....HETEROTRISSOCLADIUS	--	--	1
....PARAMETRIOCNEMUS	--	--	--
....PENTANEURA	--	1	--

02462990 YELLOW CREEK NEAR NORTHPORT, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE	JUL 19,77	AUG 17,77	SEP 19,77
TIME	1130	1130	0930
ORGANISM	COUNT	COUNT	COUNT
....PHAENOPSECTRA	1	--	--
....POLYPEDILUM	1	2	6
....RHEOTANYTARSUS	--	2	1
....SMITTIA	--	--	1
....TANYTARSUS	1	--	--
....TRICHOCLADIUS	--	--	1
....UNKNOWN GENUS	--	--	--
....ZAVRELIA	--	--	1
...SIMULIIDAE			
....SIMULIUM	--	--	3
...TABANIDAE			
....TABANUS	--	1	7
...TIPULIDAE			
....ANTOCHA	--	--	--
....DICRANOTA	--	--	--
....HEXATOMA	--	1	4
....TIPULA	2	1	--
....UNKNOWN GENUS	--	--	6
..EPHEMEROPTERA			
...BAETIDAE			
....BAETIS	--	1	1
....PSEUDOCLOEON	4	--	--
....UNKNOWN GENUS	--	--	--
...CAENIDAE			
....CAENIS	--	--	1
...HEPTAGENIIDAE			
....EPEORUS	1	--	--
....STENONEMA	13	6	12
...LEPTOPHLEBIIDAE			
....HABROPHLEBIODES	2	--	--
..HEMIPTERA			
...VELIIDAE			
....MICROVELIA	--	--	--
....RHAGOVELIA	1	--	--
..MEGALOPTERANS			
...CORYDALIDAE			
....CORYDALUS	4	1	1
....NIGRONIA	3	1	--
...SIALIDAE			
....SIALIS	--	2	2
..ODONATA			
...CORDULEGASTRIDAE			
....CORDULEGASTER	1	--	--
...GOMPHIDAE			
....LANTHUS	--	1	--
..PLECOPTERA			
...CAPNIIDAE			
....ALLOCAPNIA	16	6	7
...PELTOPERLIDAE			
....PELTOPERLA	6	1	6
...PERLIDAE			
....ACRONEURIA	42	9	27
....NEOPERLA	5	1	9
....PERLESTA	--	--	--
...UNKNOWN FAMILY			
....UNKNOWN GENUS	--	--	--
..TRICHOPTERA			
...BRACHYCENTRIDAE			
....MICRASEMA	--	1	--
...HELICOPSYCHIDAE			
....HELICOPSYCHE	1	--	4
...HYDROPSYCHIDAE			
....CHEUMATOPSYCHE	25	4	45
....DIPLECTRONA	--	--	1
....HYDROPSYCHE	6	--	1
...HYDROPTILIDAE			
....MAYATRICHIA	1	--	--
...ODONTOCERIDAE			
....PSILOTRETA	--	--	1
...PHILOPOTAMIDAE			
....CHIMARRA	4	--	1
...RHYACOPHILIDAE			
....RHYACOPHILA	--	--	--
..DIPTERA			
...CHIRONOMIDAE			
....PSECTROCLADIUS	--	--	1

02462990 YELLOW CREEK NEAR NORTHPORT, AL--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	12	9	16	12	17	14				
2	---	---	12	9	15	12	17	15				
3	---	---	---	---	15	11	14	11				
4	---	---	---	---	15	11	13	11				
5	---	---	---	---	15	12	14	11				
6	---	---	---	---	17	11	14	11				
7	---	---	---	---	16	11	18	15				
8	---	---	---	---	14	11	21	18				
9	---	---	---	---	---	---	26	8				
10	---	---	---	---	14	12	11	5				
11	---	---	---	---	17	13	10	8				
12	---	---	---	---	21	17	12	9				
13	---	---	---	---	19	17	17	11				
14	---	---	---	---	19	15	16	11				
15	---	---	---	---	17	16	14	12				
16	---	---	16	12	16	14	14	9				
17	---	---	16	13	15	13	---	---				
18	---	---	15	10	14	12	---	---				
19	---	---	16	11	14	12	---	---				
20	---	---	16	11	19	13	---	---				
21	---	---	16	10	18	16	---	---				
22	---	---	15	9	16	15	---	---				
23	---	---	15	11	16	15	---	---				
24	---	---	14	9	14	11	---	---				
25	---	---	13	8	17	11	---	---				
26	---	---	13	5	18	14	---	---				
27	---	---	13	13	19	17	---	---				
28	---	---	20	18	18	15	---	---				
29	13	10	18	16	17	13	---	---				
30	13	11	17	14	18	14	---	---				
31	13	12	---	---	18	15	---	---				
MONTH	---	---	20	5	21	11	26	5				

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	12	11	11	8	11	6	---	---	11	2
2	---	---	---	---	11	9	13	6	---	---	11	10
3	---	---	---	---	---	---	7	5	---	---	11	10
4	14	11	---	---	---	---	7	5	---	---	11	10
5	12	8	---	---	---	---	7	5	13	7	12	11
6	7	6	---	---	---	---	10	7	13	10	20	11
7	7	5	---	---	---	---	---	---	---	---	32	22
8	6	4	---	---	---	---	12	10	---	---	32	29
9	6	4	---	---	---	---	12	10	---	---	34	13
10	6	4	---	---	---	---	12	10	15	14	15	13
11	6	4	---	---	---	---	12	11	16	14	16	13
12	6	4	---	---	---	---	12	10	16	14	16	13
13	7	5	---	---	9	8	12	11	16	14	16	13
14	---	---	---	---	11	9	13	11	16	15	13	13
15	---	---	---	---	10	8	19	11	16	15	13	12
16	---	---	---	---	10	8	16	11	16	15	---	---
17	---	---	---	---	11	9	13	11	16	15	---	---
18	---	---	---	---	11	8	16	11	13	12	---	---
19	11	11	---	---	10	7	18	11	12	11	---	---
20	11	10	---	---	11	9	19	10	12	11	---	---
21	11	10	---	---	10	8	15	10	11	10	---	---
22	13	11	---	---	10	7	20	11	11	4	---	---
23	14	13	---	---	8	6	29	16	10	3	---	---
24	13	12	10	9	8	6	27	15	10	10	---	---
25	13	12	11	9	8	7	21	16	10	10	---	---
26	13	12	14	11	7	6	---	---	12	10	---	---
27	13	11	12	9	8	5	---	---	12	10	---	---
28	13	10	11	9	7	6	---	---	11	10	---	---
29	12	11	11	9	6	5	---	---	11	10	---	---
30	13	11	11	9	7	5	---	---	11	10	---	---
31	---	---	11	9	---	---	---	---	11	5	---	---
MONTH	14	4	14	9	11	5	29	5	16	3	34	2
YEAR	34	2										

02462990 YELLOW CREEK NEAR NORTHPORT, AL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	11.0	9.0	5.5	3.5	4.0	2.5				
2	---	---	10.0	7.5	5.0	3.0	3.5	2.5				
3	---	---	---	---	9.5	3.5	5.5	3.5				
4	---	---	---	---	10.5	4.0	6.5	5.5				
5	---	---	---	---	10.5	6.5	8.0	6.5				
6	---	---	---	---	8.5	5.5	7.5	7.0				
7	---	---	---	---	9.5	3.0	7.5	6.0				
8	---	---	---	---	9.5	4.0	6.0	4.5				
9	---	---	---	---	---	---	7.5	6.0				
10	---	---	---	---	---	---	7.5	4.5				
11	---	---	---	---	9.5	7.0	4.5	3.0				
12	---	---	---	---	10.5	9.5	5.0	3.0				
13	---	---	---	---	10.5	7.5	6.0	4.0				
14	---	---	---	---	8.5	6.5	7.5	6.0				
15	---	---	---	---	9.5	8.5	8.0	6.5				
16	---	---	8.0	6.5	9.5	7.5	6.5	3.5				
17	---	---	9.0	7.5	7.5	6.0	---	---				
18	---	---	8.5	6.5	8.0	6.0	---	---				
19	---	---	10.0	8.0	9.5	6.5	---	---				
20	---	---	11.0	10.0	11.0	8.0	---	---				
21	---	---	10.5	7.5	7.0	4.5	---	---				
22	---	---	7.5	5.0	4.0	2.5	---	---				
23	---	---	5.5	3.5	4.0	3.5	---	---				
24	---	---	7.5	5.0	4.0	2.5	---	---				
25	---	---	8.5	5.5	7.0	4.0	---	---				
26	---	---	11.0	8.5	7.5	6.5	---	---				
27	---	---	11.5	11.0	7.5	5.0	---	---				
28	---	---	9.5	5.5	9.0	7.5	---	---				
29	10.0	9.0	5.5	3.0	7.5	6.0	---	---				
30	12.5	10.0	4.5	3.0	7.5	4.5	---	---				
31	12.0	11.0	---	---	7.5	4.0	---	---				
MONTH	---	---	11.5	3.0	11.0	2.5	8.0	2.5				

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	18.0	15.0	21.0	18.0	24.0	22.0	---	---	22.5	19.5
2	---	---	---	---	19.0	16.5	24.5	21.5	---	---	22.0	18.5
3	---	---	---	---	---	---	24.0	21.0	---	---	22.0	18.5
4	14.5	12.0	---	---	---	---	24.0	20.5	---	---	22.5	20.5
5	14.0	10.5	---	---	---	---	24.0	---	23.0	22.5	22.0	20.0
6	15.5	11.0	---	---	---	---	23.0	21.0	24.5	22.0	22.0	20.5
7	16.5	12.5	---	---	---	---	---	---	---	---	22.0	19.5
8	16.5	12.5	---	---	---	---	24.0	23.0	---	---	20.5	18.0
9	16.5	12.5	---	---	---	---	24.5	22.0	---	---	5.0	18.0
10	17.5	13.0	---	---	---	---	24.0	21.0	23.5	20.5	21.0	19.5
11	17.5	13.5	---	---	---	---	22.5	21.0	24.5	18.0	20.5	18.5
12	18.0	14.5	---	---	---	---	23.5	19.0	24.5	21.5	19.5	16.0
13	18.0	14.0	---	---	23.0	21.5	23.0	21.5	25.0	21.5	20.5	18.5
14	---	---	---	---	22.0	20.5	23.5	21.0	24.5	21.5	20.5	18.5
15	---	---	---	---	22.5	20.5	23.5	21.0	24.5	21.5	20.0	19.0
16	---	---	---	---	21.5	20.5	24.5	21.5	24.5	22.0	---	---
17	---	---	---	---	22.5	20.0	24.0	22.0	23.5	22.0	---	---
18	---	---	---	---	23.0	20.0	24.0	21.0	22.0	21.0	---	---
19	18.5	17.5	---	---	22.5	20.5	23.0	22.0	22.0	19.5	---	---
20	18.5	16.5	---	---	23.0	20.0	23.0	18.5	22.0	20.0	---	---
21	17.5	16.5	---	---	23.5	20.5	24.5	21.0	21.5	19.5	---	---
22	17.0	16.5	---	---	24.0	21.0	23.5	22.0	21.0	18.5	---	---
23	18.0	16.5	---	---	24.5	21.0	26.5	22.0	23.0	19.5	---	---
24	17.0	15.5	19.0	18.0	25.0	22.0	24.5	22.5	9.0	20.5	---	---
25	16.5	14.0	18.0	16.5	24.0	21.5	24.0	22.5	23.0	21.0	---	---
26	15.0	12.0	18.5	16.5	24.0	22.0	---	---	23.0	21.0	---	---
27	15.5	11.5	19.0	16.5	24.5	21.5	---	---	23.0	21.0	18.5	17.5
28	16.5	12.0	19.5	17.5	24.5	22.0	---	---	22.5	20.5	19.0	16.5
29	17.0	14.0	19.5	17.0	24.5	22.0	---	---	23.0	20.0	18.0	17.5
30	18.5	15.5	20.0	17.5	24.0	21.5	---	---	23.0	20.5	19.5	17.5
31	---	---	20.0	18.0	---	---	---	---	29.5	20.0	---	---
MONTH	18.5	10.5	20.0	15.0	25.0	16.5	26.5	18.5	29.5	18.0	22.5	16.0

02462990 YELLOW CREEK NEAR NORTHPORT, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT				
29...	1410	7.4	10	.20
29...	1605	7.4	13	.26
30...	0405	7.6	8	.16
30...	1605	7.6	14	.29
31...	0405	10	8	.22
31...	1605	8.2	38	.84
NOV				
01...	0400	7.9	5	.11
01...	1600	7.6	5	.10
02...	0400	7.4	7	.14
02...	1200	7.6	2	.04
02...	1555	7.1	6	.12
03...	0355	7.1	7	.13
03...	1555	7.1	6	.12
04...	0355	7.1	5	.10
04...	1555	6.8	5	.09
05...	0350	6.8	4	.07
05...	1550	7.1	5	.10
06...	0350	6.8	5	.09
06...	1550	7.1	5	.10
07...	0350	7.1	5	.10

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
NOV				
07...	1545	7.1	4	.08
08...	0345	6.8	5	.09
08...	1545	6.8	3	.06
09...	0345	6.8	3	.06
09...	1545	7.1	4	.08
10...	0340	7.1	5	.10
10...	1540	7.1	4	.08
11...	0340	6.8	4	.07
11...	1540	7.4	4	.08
12...	0340	13	6	.21
12...	1535	9.2	5	.12
13...	0335	7.6	3	.06
13...	1535	7.4	2	.04
14...	0335	7.4	6	.12
14...	1325	17	8	.37
14...	1535	20	11	.61
15...	0330	14	6	.23
15...	1530	9.9	4	.11
16...	0330	8.2	3	.07

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
NOV				
16...	1425	7.9	3	.06
17...	0225	7.6	4	.08
18...	0225	7.4	3	.06
18...	1420	7.4	3	.06
19...	0220	7.1	3	.06
19...	1420	7.4	3	.06
20...	0215	7.1	5	.10
20...	1415	11	5	.15
21...	0215	10	6	.17
21...	1415	8.2	6	.13
22...	0215	7.6	4	.08
22...	1410	7.4	4	.08
23...	0210	7.1	7	.13
23...	1410	7.1	2	.04
24...	0210	7.1	3	.06
24...	1410	7.4	4	.08
25...	0205	7.1	3	.06
25...	1405	7.1	4	.08
26...	0205	7.1	3	.06
26...	1405	7.6	4	.08
27...	0205	8.4	5	.11

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
NOV				
27...	1405	7.9	5	.11
28...	0200	7.6	4	.08
28...	1400	7.1	20	.38
29...	0200	21	11	.62
29...	1400	11	6	.18
DEC				
01...	1102	8.2	14	.31
01...	1355	8.2	14	.31
02...	0155	7.9	10	.21
02...	1355	7.6	10	.21
03...	0150	7.6	9	.18
03...	1350	7.4	9	.18
04...	0150	7.4	7	.14
04...	1350	7.4	5	.10
05...	0150	7.4	5	.10
05...	1345	7.4	4	.08
06...	0145	7.1	4	.08
06...	1345	7.4	4	.08
07...	0145	15	5	.20

02462990 YELLOW CREEK NEAR NORTHPORT, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
DEC				
07...	1345	11	5	.15
08...	0140	8.4	4	.09
08...	1345	7.9	5	.11
09...	0140	7.6	3	.06
09...	1340	7.4	3	.06
10...	0140	7.4	1	.02
10...	1115	7.4	1	.02
10...	1335	7.4	2	.04
11...	0135	7.1	3	.06
11...	1335	19	8	.41
12...	0135	28	13	.98
12...	1335	32	19	1.6
13...	0130	27	11	.80
13...	1330	16	4	.17
14...	0130	13	2	.07
14...	1330	11	1	.03
15...	0125	15	3	.12
15...	1325	14	3	.11
16...	0125	11	2	.06
16...	1325	10	1	.03

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
DEC				
17...	0125	9.6	2	.05
17...	1325	9.2	2	.05
18...	0120	8.8	9	.21
18...	1320	8.4	1	.02
19...	0120	8.2	2	.04
19...	1320	8.2	0	.00
20...	0120	8.2	3	.07
20...	1450	39	37	3.9
20...	1515	38	32	3.3
20...	1555	39	25	2.6
20...	1610	33	31	2.8
20...	1615	41	28	3.1
21...	0115	20	4	.22
21...	1315	15	4	.16
23...	1540	10	3	.08
24...	0110	9.9	6	.16
26...	0100	37	158	16
26...	1305	23	6	.37
27...	0105	18	4	.20

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
DEC				
27...	1305	16	1	.04
29...	1520	11	0	.00
29...	2125	10	2	.06
31...	1250	11	2	.06
31...	1255	12	1	.03
JAN				
09...	1330	148	264	105
09...	1350	143	244	94
09...	1430	151	278	113
09...	1456	66	216	38
09...	1630	141	182	69
09...	1830	123	138	46
09...	2140	94	78	20
10...	0010	70	68	13
13...	1427	16	2	.09
14...	0025	17	4	.18
14...	0230	22	5	.30
14...	0440	42	30	3.4
14...	0845	64	59	10
14...	0850	64	52	9.0
14...	0915	64	52	9.0

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JAN				
14...	0920	64	53	9.2
14...	0945	64	--	--
14...	0950	63	46	7.8
14...	0955	63	48	8.2
14...	0957	63	47	8.0
14...	0959	63	49	8.3
14...	1000	63	48	8.2
14...	1230	54	47	6.9
14...	1245	51	19	2.6
14...	1257	49	28	3.7
14...	1258	49	17	2.2
14...	1259	49	11	1.5
14...	1600	39	6	.63
15...	0025	28	11	.83
15...	1205	23	11	.68
16...	0025	20	8	.43
16...	1225	18	7	.34
17...	0025	16	9	.39
25...	1322	16	11	.48

02462990 YELLOW CREEK NEAR NORTHPORT, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JAN				
25...	1325	16	7	.30
27...	0001	14	6	.23
27...	0005	14	5	.19
27...	1205	14	6	.23
28...	0005	14	5	.19
28...	0730	20	13	.70
28...	1200	21	7	.40
29...	0001	14	14	.53
FEB				
02...	1125	11	13	.39
02...	1155	11	4	.12
02...	2350	11	3	.09
03...	1150	11	2	.06
03...	2350	11	2	.06
04...	1150	11	4	.12
04...	2350	11	5	.15
05...	0605	11	10	.30
07...	1145	9.5	8	.21
07...	2345	9.5	4	.10
08...	1140	9.5	4	.10
08...	2340	9.5	6	.15

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
FEB				
09...	1140	9.5	9	.23
09...	2340	9.5	4	.10
10...	0730	9.2	2	.05
10...	1130	9.2	2	.05
10...	1137	9.1	4	.10
10...	1140	9.1	5	.12
10...	1200	9.1	3	.07
10...	1232	9.1	4	.10
10...	1312	9.1	5	.12
10...	2330	9.1	4	.10
11...	1130	9.1	5	.12
11...	2330	9.1	7	.17
12...	0820	9.8	5	.13
12...	1015	14	9	.34
12...	1100	14	13	.49
12...	1130	17	17	.78
12...	2330	14	10	.38
13...	1130	11	8	.24
13...	1600	11	3	.09

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
FEB				
13...	1610	11	3	.09
14...	1130	9.8	4	.11
14...	2325	9.8	5	.13
15...	1125	9.1	1	.02
15...	2325	8.8	3	.07
16...	1120	8.8	4	.10
16...	2320	8.8	3	.07
17...	1120	8.8	1	.02
17...	2320	8.8	4	.10
18...	1120	8.8	44	1.0
18...	2315	8.4	2	.05
19...	1115	8.8	1	.02
19...	2315	8.4	2	.05
20...	1115	8.4	1	.02
20...	2315	8.4	3	.07
21...	1110	8.1	1	.02
21...	2310	8.4	2	.05
22...	1110	8.4	1	.02
22...	2310	8.1	4	.09
23...	1110	8.4	3	.07

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
FEB				
23...	1505	9.8	49	1.3
23...	1800	23	125	7.8
23...	1935	31	177	15
23...	2010	64	297	51
23...	2050	97	440	115
23...	2125	121	387	126
23...	2227	144	415	161
23...	2230	144	355	138
23...	2232	144	359	140
23...	2235	144	469	182
23...	2305	164	386	171
23...	2335	156	293	123
23...	2340	156	340	143
23...	2345	156	300	126
23...	2347	150	403	163
23...	2350	150	178	72
24...	0107	127	188	64
24...	0110	127	185	63
24...	0130	119	99	32

02462990 YELLOW CREEK NEAR NORTHPORT, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
FEB				
24...	0400	91	54	13
24...	0615	67	30	5.4
24...	1005	42	26	2.9
24...	1010	42	25	2.8
24...	1105	38	392	40
25...	0222	23	47	2.9
25...	0225	23	10	.62
25...	1356	20	9	.49
25...	2305	--	9	--
25...	2310	18	9	.44
26...	1110	16	9	.39
26...	2305	20	15	.81
26...	2320	25	19	1.3
27...	0052	45	26	3.2
27...	0055	45	61	7.4
27...	1105	32	22	1.9
27...	2122	23	10	.62
27...	2125	23	6	.37
28...	2302	18	7	.34
28...	2305	18	7	.34

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
MAR				
01...	1105	18	8	.39
02...	1100	16	6	.26
02...	2300	15	8	.32
03...	1100	16	7	.30
03...	2135	18	9	.44
03...	2145	18	4	.19
03...	2255	18	4	.19
04...	0020	31	16	1.3
04...	0030	31	9	.75
04...	0135	41	84	9.3
04...	0220	75	128	26
04...	0250	100	263	71
04...	0255	100	227	61
04...	0300	100	263	71
04...	0340	126	248	84
04...	0345	126	248	84
04...	0400	127	260	89
04...	0610	142	180	69
04...	0612	142	160	61

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
MAR				
04...	0630	138	168	63
04...	0800	126	123	42
04...	0805	126	63	21
04...	0807	126	128	44
04...	0810	126	131	45
04...	0815	123	126	42
04...	0847	115	93	29
04...	0850	115	91	28
04...	1055	97	68	18
04...	1130	91	54	13
04...	1135	91	55	14
04...	1147	85	59	14
04...	1150	85	47	11
04...	2215	42	15	1.7
04...	2220	42	11	1.2
04...	2225	42	12	1.4
05...	1050	31	10	.84
05...	2105	39	15	1.6
05...	2235	62	49	8.2
05...	2250	71	52	10

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
MAR				
05...	2355	91	75	18
06...	0005	91	92	23
06...	0135	117	113	36
06...	0137	117	101	32
06...	0140	117	88	28
06...	0205	125	102	34
06...	0207	125	99	33
06...	0210	125	94	32
06...	0215	125	98	33
06...	0220	126	121	41
06...	0225	126	111	38
06...	0405	127	81	28
06...	0410	127	84	29
06...	0412	127	89	31
06...	0414	126	75	26
06...	0415	126	86	29
06...	0420	126	83	28
06...	0422	126	80	27
06...	0425	126	83	28

02462990 YELLOW CREEK NEAR NORTHPORT, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAR				
06...	0427	126	79	27
06...	0430	126	72	24
06...	0532	119	61	20
06...	0535	119	74	24
06...	0537	119	55	18
06...	0540	117	82	26
06...	0550	117	65	21
06...	0915	96	79	20
06...	0925	96	40	10
06...	0927	96	32	8.3
06...	0929	96	33	8.6
06...	0930	96	25	6.5
06...	1000	88	37	8.8
06...	1050	82	34	7.5
06...	1512	66	38	6.8
06...	1514	66	19	3.4
06...	1515	66	17	3.0
06...	1520	65	14	2.5
06...	1525	65	12	2.1
09...	0920	96	29	7.5
MAR				
13...	1650	48	504	65
14...	0924	36	13	1.3
14...	1035	36	10	.97
14...	2235	31	7	.59
15...	1035	28	5	.38
15...	2235	25	6	.40
16...	0950	23	7	.43
16...	1015	23	5	.31
16...	1030	23	6	.37
16...	1105	23	3	.19
16...	1130	23	6	.37
16...	2230	21	5	.28
17...	1030	20	4	.22
17...	2230	19	8	.41
18...	1030	19	4	.21
18...	2285	18	3	.15
19...	1025	18	3	.15
19...	2225	17	3	.14
20...	1025	17	3	.14

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAR				
20...	2225	16	2	.09
21...	1025	16	3	.13
21...	1245	18	11	.53
21...	1715	62	81	14
21...	1750	65	65	11
21...	1755	65	64	11
21...	1800	65	62	11
21...	1805	65	55	9.7
21...	1852	66	63	11
21...	1855	66	53	9.4
21...	1905	66	61	11
21...	1910	66	52	9.3
21...	2225	52	34	4.8
22...	1000	23	6	.37
22...	1020	23	8	.50
22...	1100	23	3	.19
22...	2220	19	2	.10
23...	1020	18	0	.00
23...	2220	18	0	.00
24...	1020	17	1	.05
MAR				
24...	1508	17	0	.00
24...	1640	16	4	.17
24...	1645	16	3	.13
24...	2215	16	3	.13
25...	1015	16	2	.09
25...	1040	16	4	.17
25...	2215	15	0	.00
26...	1015	14	0	.00
26...	2215	14	2	.08
27...	1010	14	2	.08
27...	2210	34	0	.00
28...	1010	18	13	.63
28...	2210	32	4	.35
29...	1010	30	0	.00
29...	2205	23	10	.62
30...	1005	20	1	.05
30...	2205	18	1	.05
31...	1005	18	1	.05
31...	2205	33	1	.09

02462990 YELLOW CREEK NEAR NORTHPORT, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
APR				
01...	1005	22	3	.18
01...	2200	20	5	.27
02...	1000	21	3	.17
02...	2200	19	3	.15
03...	1000	115	61	19
03...	2200	83	26	5.8
04...	1000	54	8	1.2
04...	1433	203	518	284
04...	1505	276	1090	812
04...	1705	730	801	1580
04...	1715	737	355	706
04...	1730	744	347	697
04...	1745	759	321	658
04...	1755	759	422	865
04...	1800	769	291	604
04...	1820	785	293	621
04...	1840	800	237	512
04...	1845	800	291	629
04...	1850	800	193	417
04...	1855	805	268	582
04...	1900	810	205	448
04...	1930	825	208	463
04...	2130	807	245	534
04...	2145	788	124	264
04...	2330	604	119	194
04...	2350	566	98	150
05...	0030	538	131	190
05...	0140	413	146	163
05...	0220	369	119	119
05...	0230	361	66	64
05...	0240	344	140	130
05...	1000	160	42	18
05...	2155	86	16	3.7
06...	0955	65	14	2.5
06...	2155	51	11	1.5
07...	0955	45	5	.61
07...	2155	32	7	.60
08...	0955	31	7	.59
08...	2155	28	6	.45

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
APR				
09...	0950	26	3	.21
09...	2150	25	5	.34
10...	0950	26	4	.28
10...	1840	26	5	.35
10...	2150	26	2	.14
11...	0945	23	3	.19
11...	2145	23	3	.19
12...	0945	20	5	.27
12...	2145	20	1	.05
13...	0940	21	4	.23
13...	2145	18	1	.05
14...	0940	19	0	.00
14...	2140	18	1	.05
15...	0940	18	1	.05
15...	2140	16	1	.04
16...	0940	18	2	.10
16...	2140	16	1	.04
17...	0935	16	2	.09
17...	2135	15	3	.12
18...	0935	18	1	.05
18...	2135	15	0	.00
19...	0930	15	3	.12
19...	2130	14	1	.04
20...	0930	15	2	.08
20...	2130	14	2	.08
21...	0930	15	3	.12
21...	2130	16	4	.17
22...	2125	28	13	.98
23...	0925	18	7	.34
23...	2125	16	11	.48
24...	0925	16	5	.22
24...	2120	14	2	.08
25...	0920	15	6	.24
25...	2120	13	5	.18
26...	0920	14	4	.15
26...	2120	13	3	.11
27...	0915	14	5	.19
27...	2115	12	6	.19
28...	0915	14	6	.23

02462990 YELLOW CREEK NEAR NORTHPORT, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
APR				
28...	2115	12	6	.19
29...	0915	13	6	.21
29...	2115	12	4	.13
30...	0910	13	6	.21
30...	2110	11	7	.21
MAY				
01...	0910	13	6	.21
01...	2110	11	6	.18
02...	0905	12	5	.16
02...	2105	11	6	.18
03...	0905	13	6	.21
03...	2105	14	4	.15
04...	0905	16	4	.17
04...	2105	14	6	.23
05...	0900	14	4	.15
05...	1608	12	3	.10
05...	1625	12	5	.16
05...	2155	11	6	.18
06...	0955	12	6	.19
06...	1100	7.2	5	.10
06...	2155	11	6	.18
MAY				
07...	0415	6.7	41	.74
07...	0955	12	5	.16
08...	0420	6.7	5	.09
08...	0455	6.7	2	.04
08...	0505	6.7	5	.09
08...	0515	6.7	5	.09
08...	0530	6.7	4	.07
08...	0950	11	17	.50
08...	2150	14	9	.34
09...	0535	6.7	5	.09
09...	0950	14	6	.23
09...	2150	11	4	.12
10...	0540	6.7	4	.07
10...	0950	11	2	.06
10...	1545	6.7	4	.07
10...	1600	6.7	4	.07
10...	1950	6.1	3	.05
10...	2040	5.9	7	.11
10...	2145	10	2	.05
MAY				
11...	0825	6.7	0	.00
11...	0840	6.7	2	.04
11...	0945	11	1	.03
11...	1350	11	3	.09
11...	2035	5.9	2	.03
11...	2040	5.9	3	.05
11...	2145	9.8	4	.11
12...	0930	6.7	1	.02
12...	0940	6.7	2	.04
12...	0945	11	4	.12
12...	0950	6.7	2	.04
12...	1000	6.7	3	.05
12...	1015	6.7	2	.04
12...	1025	6.7	2	.04
12...	1030	6.7	3	.05
12...	2145	9.8	3	.08
12...	2230	5.6	1	.02
12...	2240	5.6	3	.05
13...	0940	11	3	.09
13...	1045	6.4	3	.05
MAY				
13...	2140	9.5	3	.08
13...	2240	5.6	3	.05
14...	0940	11	2	.06
14...	1050	7.0	5	.09
14...	2140	9.5	3	.08
15...	0940	10	6	.16
15...	1050	7.2	4	.08
15...	2135	9.1	5	.12
16...	0935	9.8	6	.16
16...	1045	7.5	9	.18
16...	1205	9.8	2	.05
16...	2135	9.1	5	.12
17...	0935	9.1	5	.12
17...	1040	10	8	.22
17...	2135	8.1	4	.09
18...	0930	9.1	6	.15
18...	1035	7.8	4	.08
18...	2130	7.8	5	.11
19...	0930	9.1	4	.10

02462990 YELLOW CREEK NEAR NORTHPORT, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAY				
19...	1030	9.8	7	.19
19...	1100	9.1	3	.07
19...	2130	7.5	3	.06
20...	0930	8.4	3	.07
20...	1030	11	8	.24
20...	1115	8.8	4	.10
20...	2130	7.8	3	.06
21...	0900	8.8	3	.07
21...	1000	8.1	6	.13
21...	1025	8.1	4	.09
21...	1110	8.1	5	.11
21...	2125	7.2	7	.14
22...	0925	8.1	3	.07
22...	1035	7.2	4	.08
22...	2125	8.1	4	.09
23...	0922	8.8	3	.07
23...	0925	8.8	3	.07
23...	1030	7.0	3	.06
23...	1435	8.8	4	.10
23...	2255	7.5	4	.08
MAY				
23...	2300	--	4	--
23...	2305	7.5	5	.10
24...	1025	6.7	4	.07
24...	1105	8.4	4	.09
24...	2310	17	4	.18
24...	2315	17	4	.18
25...	1005	11	4	.12
25...	1020	11	10	.31
25...	1120	11	19	.56
25...	2325	9.1	18	.44
29...	0010	7.5	2	.04
29...	0027	7.5	3	.06
29...	0030	7.5	1	.02
29...	0045	7.5	3	.06
29...	0055	7.5	3	.06
29...	0105	7.5	10	.20
29...	0150	7.8	3	.06
29...	0400	7.8	3	.06
29...	0405	--	2	--
MAY				
29...	0410	7.8	2	.04
29...	0451	--	8	--
29...	0457	7.8	8	.17
29...	0600	8.1	6	.13
29...	0705	8.1	5	.11
29...	0745	8.1	4	.09
JUN				
08...	0455	--	2	--
08...	0515	--	5	--
08...	0530	--	4	--
10...	1600	--	4	--
10...	1950	--	3	--
10...	2040	--	7	--
11...	0825	--	0	--
11...	2040	--	3	--
12...	0940	--	2	--
12...	0950	--	2	--
12...	1015	--	2	--
12...	2240	--	3	--
21...	1030	--	6	--
26...	1020	7.5	6	.12
JUN				
27...	1015	7.0	6	.11
28...	1010	6.7	5	.09
29...	1005	6.1	6	.10
30...	1005	6.4	6	.10
JUL				
01...	1000	6.1	7	.12
02...	0955	5.9	7	.11
03...	0950	5.6	5	.08
04...	0945	5.6	3	.05
05...	0945	5.4	4	.06
06...	0940	5.4	4	.06
07...	0935	5.2	3	.04
08...	1012	5.0	4	.05
09...	0940	5.6	4	.06
11...	0955	6.1	6	.10
19...	1100	6.4	7	.12
19...	1317	7.5	36	.73
19...	1607	8.8	43	1.0
20...	0920	7.2	16	.31

02462990 YELLOW CREEK NEAR NORTHPORT, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JUL				
20...	0945	7.5	12	.24
21...	0945	6.4	10	.17
21...	1010	6.4	9	.16
22...	0945	5.9	13	.21
23...	0940	5.9	14	.22
24...	0935	7.8	14	.29
25...	0935	6.4	11	.19
26...	0315	10	19	.51
26...	1915	10	41	1.1
27...	1115	20	13	.70
28...	0315	25	18	1.2
28...	1915	25	11	.74
29...	1110	20	4	.22
30...	0310	15	12	.49
30...	1905	15	8	.32
31...	1105	12	10	.32
AUG				
04...	1515	26	9	.63
04...	1605	23	52	3.2
05...	2225	8.4	9	.20
06...	2225	7.0	8	.15

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
AUG				
07...	2225	6.4	6	.10
08...	2220	5.9	6	.10
09...	2220	6.1	8	.13
10...	2040	5.9	8	.13
11...	0905	5.9	7	.11
11...	1000	6.1	7	.12
11...	1030	6.1	6	.10
12...	0905	6.7	4	.07
13...	0900	6.7	5	.09
14...	0900	5.6	3	.05
15...	0900	5.6	3	.05
17...	1130	6.1	4	.07
18...	0855	8.8	19	.45
19...	0850	6.7	9	.16
20...	0850	5.9	9	.14
21...	0845	6.1	7	.12
22...	0845	5.9	6	.10
23...	0845	5.6	7	.11
24...	0840	5.6	7	.11

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
AUG				
25...	0840	5.4	9	.13
26...	0835	5.6	5	.08
27...	0835	7.5	8	.16
29...	0830	5.6	5	.08
30...	0830	5.4	5	.07
31...	0825	5.2	3	.04
SEP				
01...	0825	5.0	3	.04
02...	0820	4.8	1	.01
03...	0820	4.8	1	.01
04...	0820	4.8	1	.01
05...	0815	8.8	6	.14
06...	0815	7.0	1	.02
06...	0940	--	740	--
06...	0945	--	431	--
06...	1030	--	1560	--
06...	2140	74	740	148
06...	2145	74	431	86
06...	2225	178	950	457
06...	2230	228	1560	960
06...	2315	300	971	787

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
SEP				
07...	0205	211	325	185
07...	0720	105	85	24
07...	0810	75	79	16
07...	1440	28	32	2.4
08...	0805	13	10	.35
09...	0805	8.4	7	.16
10...	0805	7.2	4	.08
11...	0800	8.4	4	.09
12...	0800	6.4	3	.05
13...	0800	6.1	2	.03
14...	0755	6.7	3	.05
15...	0750	9.1	4	.10
15...	1855	19	78	4.0
16...	0015	--	30	--
16...	0055	--	93	--
16...	0155	25	30	2.1
16...	0555	36	93	9.0
16...	0735	77	225	47
16...	0750	109	264	78

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
SEP				
16...	0910	98	132	35
16...	0940	--	132	--
16...	1930	28	19	1.5
17...	0745	17	5	.23
18...	0745	11	4	.12
19...	0740	9.1	2	.05
20...	0740	8.8	3	.07
21...	0740	8.1	3	.07
22...	0735	7.0	2	.04
22...	1030	7.6	4	.08
23...	0740	6.4	2	.03
23...	1040	6.7	2	.04

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
SEP				
24...	0735	6.4	1	.02
25...	0735	6.7	1	.02
26...	0730	11	4	.12
26...	1230	28	118	8.9
26...	2120	29	27	2.1
27...	0730	13	8	.28
27...	1025	--	5	--
28...	0735	9.5	4	.10
29...	0725	7.8	3	.06
30...	0725	22	17	1.0

02463900 BEAR CREEK NEAR SAMANTHA, AL

LOCATION.--Lat 33°32'33", long 87°33'43", in SW¼NW¼ sec. 26, T. 17 S., R. 10 W., Tuscaloosa County, Hydrologic Unit 03160112, on downstream side of county road bridge, 0.5 mi (0.8 km) downstream from Dry Branch, 5.1 mi (8.2 km) northwest of Samantha, and 2.7 mi (4.3 km) upstream from mouth.

DRAINAGE AREA.--15.05 mi^2 (38.98 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1976 to September 1977.

GAGE.--Water-stage recorder. Altitude of gage is 270 ft (82 m), from topographic map.

REMARKS.--Water-discharge records good above 10 ft^3/s (0.28 m^3/s), fair between 1.0 ft^3/s (0.028 m^3/s) and 10 ft^3/s (0.28 m^3/s), and poor below 1.0 ft^3/s (0.028 m^3/s).

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 400 ft^3/s (11.3 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 9	1445	735	20.8	10.68	3.255	Mar. 12	1115	1080	30.6	12.56	3.828
Feb. 24	0015	688	19.5	10.38	3.164	Apr. 4	1830	*2390	67.7	*17.17	5.233
Mar. 4	0615	994	28.2	12.17	3.709						

Minimum discharge, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	.54	6.7	6.7	16	45	53	3.3	.50	.00	.58	.00
2	1.2	.46	4.9	5.9	14	31	54	3.0	.46	.00	.23	.00
3	1.0	.39	4.2	8.3	14	33	607	2.9	.39	.00	.21	.00
4	.80	.36	3.6	9.4	13	495	772	2.8	.31	.00	.23	.00
5	.71	.33	3.2	9.7	12	160	387	2.6	.29	.00	.21	.00
6	1.1	.33	3.2	13	10	259	164	2.4	.27	.00	.18	1.7
7	1.4	.36	4.5	31	8.9	132	90	2.3	.25	.00	.14	4.0
8	1.2	.33	4.5	21	8.7	69	55	2.1	.23	.00	.13	2.0
9	.94	.33	3.8	320	8.3	45	39	2.2	.21	.00	.10	.90
10	.80	1.0	3.4	174	8.3	34	31	2.1	.21	.00	.07	.50
11	.71	1.2	5.0	64	7.9	28	26	1.7	.19	.00	.06	.40
12	.58	1.4	48	39	9.7	460	21	1.5	.18	.00	.06	.30
13	.50	1.5	46	28	9.4	179	17	1.4	.14	.00	.03	.45
14	.46	1.8	22	152	8.7	87	15	1.2	.14	.06	.03	.54
15	.39	1.7	20	94	7.9	52	13	1.1	.13	.07	.01	.58
16	.33	1.5	16	49	7.1	35	12	1.0	.13	.06	.00	2.6
17	.33	1.2	12	31	6.7	28	11	.89	.10	.07	.04	2.4
18	.29	1.1	8.9	26	6.5	25	9.9	.75	.11	.11	.06	1.6
19	.27	1.0	7.3	20	6.2	21	9.1	.66	.10	.08	.16	1.2
20	.25	1.1	48	17	5.7	19	8.1	.58	.08	.03	.10	1.1
21	.23	1.2	31	15	5.5	32	7.7	.58	.06	.00	.07	1.0
22	.21	1.2	19	12	5.4	47	10	.71	.04	.00	.06	.94
23	.18	1.2	13	12	101	35	9.7	1.4	.03	.00	.10	.85
24	.18	1.2	9.9	62	303	28	7.5	1.9	.11	.00	.20	.80
25	.46	1.2	85	53	89	24	6.2	1.1	.13	.03	.20	.89
26	.71	1.3	77	38	48	21	5.4	.89	.10	.10	.10	5.2
27	.62	1.5	36	29	149	19	4.9	1.1	.06	.18	.05	4.6
28	.54	17	23	28	76	44	4.3	1.0	.03	.16	.03	2.8
29	.39	28	15	21	---	73	4.0	.75	.00	.39	.02	3.0
30	.50	10	11	20	---	126	3.6	.80	.00	.29	.01	5.9
31	.62	---	8.7	18	---	71	---	.58	---	.39	.00	---
TOTAL	19.20	81.73	603.8	1427.0	965.9	2757	2457.4	47.29	4.98	2.02	3.47	46.25
MEAN	.62	2.72	19.5	46.0	34.5	88.9	81.9	1.53	.17	.065	.11	1.54
MAX	1.4	28	85	320	303	495	772	3.3	.50	.39	.58	5.9
MIN	.18	.33	3.2	5.9	5.4	19	3.6	.58	.00	.00	.00	.00
CFSM	.04	.18	1.30	3.06	2.29	5.91	5.44	.10	.01	.004	.007	.10
IN.	.05	.20	1.49	3.53	2.39	6.81	6.07	.12	.01	.00	.01	.11

WTR YR 1977 TOTAL 8416.04 MEAN 23.1 MAX 772 MIN .00 CFSM 1.54 IN 20.80

02463900 BEAR CREEK NEAR SAMANTHA, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1976 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: November 1976 to current year.
WATER TEMPERATURES: November 1976 to current year.
SUSPENDED SEDIMENT: December 1976 to current year.

INSTRUMENTATION.--Specific conductance recorder since November 1976; temperature recorder since November 1976; automatic sediment sampler since December 1976.

REMARKS.--Interruptions in specific conductance and temperature data due to malfunctions of the equipment. Sediment samples are collected once daily during normal flow and with change in stage of one quarter of a foot. Samples are collected manually (ETR method) during selected events.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	DISSOLVED OXYGEN (MG/L)
NOV							
03...	1220	.35	52	7.0	8.0	--	--
DEC							
06...	1210	2.8	39	6.7	5.3	20	--
20...	1730	74	28	6.2	9.5	--	--
21...	1412	35	35	6.4	6.0	--	--
JAN							
05...	1600	12	32	7.1	6.5	--	--
14...	1300	234	21	5.7	8.0	--	--
FEB							
15...	1405	5.0	25	6.6	7.9	--	--
23...	1550	--	--	7.5	--	--	--
MAR							
03...	2200	32	24	6.1	11.0	--	--
04...	0150	300	25	6.5	11.0	--	--
06...	1000	280	23	6.1	11.0	--	--
12...	1035	1060	18	6.0	12.0	--	--
12...	1547	635	17	6.5	15.0	--	--
12...	1858	--	16	6.3	14.0	--	--
APR							
04...	1830	2560	27	7.1	15.0	--	--
04...	2056	2010	20	7.1	15.0	--	--
04...	2145	1690	21	7.3	15.0	--	--
04...	2230	1360	20	7.3	15.0	--	--
04...	2400	990	20	7.3	15.0	--	--
MAY							
11...	1045	--	37	--	17.0	--	--
18...	0930	.73	44	6.2	19.0	--	--
JUN							
06...	1350	--	--	--	--	--	--
24...	1200	.01	80	6.6	27.1	--	--
24...	1300	.20	60	7.0	26.0	--	--
JUL							
20...	1350	.02	62	6.5	25.0	--	4.8
SEP							
20...	0940	.82	33	6.4	21.0	40	--
21...	1100	--	39	--	17.5	--	--

02463900 BEAR CREEK NEAR SAMANTHA, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL ALUM-INUM (AL) (UG/L)	DIS-SOLVED ALUM-INUM (AL) (UG/L)	TOTAL ALUMI-NUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MA-TERIAL (UG/G)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)
DEC									
06...	.20	--	40	--	--	80	--	--	20
JAN									
14...	--	--	--	--	--	50	--	--	--
FEB									
15...	--	--	10	2800	700	70	17000	--	--
23...	--	--	10	--	--	10	--	--	0
MAR									
03...	--	420	10	--	650	40	--	20	10
04...	--	1800	50	--	5000	60	--	90	10
12...	--	2500	10	--	2500	60	--	110	30
12...	--	2300	10	--	4300	30	--	150	30
12...	--	2100	20	--	4700	30	--	130	20
APR									
04...	--	1400	50	--	10000	90	--	250	40
04...	--	1300	60	--	4500	70	--	130	40
04...	--	1100	40	--	5800	50	--	130	30
SEP									
20...	.05	--	0	--	--	250	--	--	--

DATE	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)
DEC							
06...	.03	.00	.03	.11	.14	.01	.00
SEP							
20...	.01	.00	.01	.24	.25	.01	.00

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
DEC											
06...	1	0	0	2	0	0	.1	0	50	10	9.2
FEB											
15...	1	0	0	0	0	0	.0	0	20	10	2.2

DATE	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM MA-TERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	TOTAL IRON IN BOTTOM MA-TERIAL (UG/G)
FEB										
15...	8	0	<10	<10	20	0	<10	0	<10	17000

DATE	TOTAL LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	TOTAL SELE-NIUM (SE) (UG/L)	TOTAL SELE-NIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL STRON-TIUM (SR) (UG/L)	TOTAL STRON-TIUM IN BOTTOM MA-TERIAL (UG/G)	SUS-PENDED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)
FEB										
15...	3	<10	.0	.0	1	0	30	<10	0	20

02463900 BEAR CREEK NEAR SAMANTHA, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOL-VED SUL-FIDE (S) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	BENTHIC INVER-TEBRA-TES WET WEIGHT (G/SQ METER)	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)
NOV							
03...	24	0	--	4.2	--	--	--
DEC							
06...	10	0	.0	4.3	--	--	--
20...	8	0	--	4.1	--	--	--
21...	8	0	--	3.6	--	--	--
JAN							
05...	10	0	--	4.1	--	--	--
14...	7	0	--	4.1	--	--	--
FEB							
15...	10	0	--	3.5	--	--	--
23...	5	0	--	1.4	--	--	--
MAR							
03...	10	0	--	3.8	--	--	--
04...	11	0	--	4.0	--	--	--
06...	--	--	--	--	--	--	--
12...	7	0	--	4.1	--	--	--
12...	7	0	--	4.0	--	--	--
12...	9	0	--	3.9	--	--	--
APR							
04...	10	0	--	3.2	--	--	--
04...	--	--	--	--	--	--	--
04...	7	0	--	4.0	--	--	--
04...	--	--	--	--	--	--	--
04...	12	0	--	3.2	--	--	--
MAY							
11...	--	--	--	--	.0	--	--
18...	--	--	--	3.7	--	--	--
JUN							
06...	--	--	--	--	--	1.68	1.56
24...	--	--	--	--	--	--	--
24...	--	--	--	--	1.0	.104	.175
JUL							
20...	24	0	--	6.3	--	--	--
SEP							
20...	10	0	.0	4.1	--	--	--
21...	--	--	--	--	1.1	--	--

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
DEC										
06...	12	4	2.1	1.6	2.1	.3	.9	1.9	--	27
JAN										
14...	10	5	2.7	.9	--	--	--	--	--	--
FEB										
15...	--	--	--	--	--	--	--	--	--	--
23...	1	0	.1	.1	.4	.2	--	.7	--	--
MAR										
03...	7	0	1.2	.9	2.3	.4	.7	--	--	--
04...	7	0	1.3	.8	2.8	.5	.4	--	--	--
12...	5	0	1.0	.6	1.3	.3	1.0	--	--	--
12...	4	0	.9	.4	1.3	.3	.8	--	--	--
12...	5	0	1.0	.6	1.4	.3	.7	--	--	--
APR										
04...	9	0	2.1	.8	1.6	.2	1.0	--	--	--
04...	7	1	1.2	.9	1.9	.3	.9	--	--	--
04...	8	0	1.6	.9	1.7	.3	.9	--	--	--
SEP										
20...	11	3	2.2	1.3	2.2	.3	1.8	2.3	24	28

02463900 BEAR CREEK NEAR SAMANTHA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE	JAN 11,77	APR 10,77	MAY 11,77	JUN 24,77	SEP 21,77
TIME	2400	0000	1045	1300	1100
TOTAL COUNT	26	198	162	407	334
DIVERSITY: PHYLUM	0.5	0.0	0.2	0.0	0.2
.CLASS	0.7	0.3	0.2	0.0	0.2
..ORDER	2.4	2.2	2.6	1.7	2.0
...FAMILY	2.6	3.6	3.2	2.5	2.6
....GENUS	2.6	3.8	3.5	2.7	2.6
....GENUS-INSECTA	2.2	3.6	3.4	2.6	2.5
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT
ANNELIDA					
.OLIGOCHAETA					
..UNKNOWN ORDER					
...UNKNOWN FAMILY					
....UNKNOWN GENUS	3	1	--	--	4
ARTHROPODA (ARTHROPODS)					
.ARACHNOIDEA					
..HYDRACARINA					
...UNKNOWN FAMILY					
....UNKNOWN GENUS	--	8	--	1	--
.CRUSTACEA					
..ISOPODA					
...ASELLIDAE					
....LIRCEUS	1	--	--	--	--
..PODOCOPA					
...UNKNOWN FAMILY					
....UNKNOWN GENUS	--	--	--	1	--
.INSECTA					
..COLEOPTERA					
...DRYOPIDAE					
....HELICHUS	--	3	--	15	4
...ELMIDAE					
....MACRONYCHUS	--	--	--	1	--
....OPTIOSERVUS	--	--	--	--	1
....OULIMNIUS	--	1	--	1	--
....STENELMIS	1	15	21	4	45
...PSEPHENIDAE					
....ECTOPRIA	--	--	--	--	1
....PSEPHENUS	--	2	--	--	12
..DIPTERA					
...CERATOPOGONIDAE					
....UNKNOWN GENUS	--	--	--	--	2
...CHIRONOMIDAE					
....CONCHAPELOPIA	--	1	1	--	1
....CRICOTOPUS	--	--	2	--	--
....EUKIEFFERIELLA	--	2	4	--	--
....PARACLADOPELMA	--	1	--	--	--
....POLYPEDILUM	--	--	3	1	1
....RHEOTANYTARSUS	--	--	1	1	--
....TANYTARSUS	--	1	1	--	1
....XENOCHIRONOMUS	--	--	1	--	--
...SIMULIIDAE					
....SIMULIUM	--	15	2	--	--
...TABANIDAE					
....TABANUS	--	1	4	--	2
...TIPULIDAE					
....ANTOCHA	--	1	--	--	--
....PSEUDOLIMNOPHILA	--	--	--	--	3
....TIPULA	9	--	2	--	--
..EPHEMEROPTERA					
...BAETIDAE					
....PSEUDOCLOEON	--	55	--	--	--
...BAETISCIDAE					
....BAETISCA	--	--	--	--	1
...EPHEMERELLIDAE					
....EPHEMERELLA	--	2	--	--	--
...HEPTAGENIIDAE					
....RHITHROGENA	--	3	--	--	--

02463900 BEAR CREEK NEAR SAMANTHA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE	JAN 11,77	APR 10,77	MAY 11,77	JUN 24,77	SEP 21,77
TIME	2400	0000	1045	1300	1100
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT
....STENONEMA	--	13	5	19	10
...LEPTOPHLEBIIDAE					
....HABROPHLEBIODES	--	--	4	4	--
...SIPHLONURIDAE					
....ISONYCHIA	3	23	29	16	--
..HEMIPTERA					
...VELIIDAE					
....MICROVELIA	--	--	--	3	--
....RHAGOVELIA	--	--	--	10	--
..MEGALOPTERANS					
...CORYDALIDAE					
....CORYDALUS	--	2	7	--	1
....NIGRONIA	--	1	--	25	15
....UNKNOWN 118020701000100	--	--	--	2	--
..ODONATA					
...AESHNIDAE					
....BOYERIA	--	--	--	1	--
...GOMPHIDAE					
....LANTHUS	--	--	--	3	36
..PLECOPTERA					
...CAPNIIDAE					
....ALLOCAPNIA	6	4	--	--	--
...CHLOROPERLIDAE					
....ALLOPERLA	--	3	1	--	--
...NEMOURIDAE					
....NEMOURA	--	2	--	--	--
...PERLIDAE					
....ACRONEURIA	--	18	41	11	3
....PERLESTA	--	--	--	7	--
...PERLODIDAE					
....ISOGENUS	--	2	--	--	--
...TAENIOPTERYGIDAE					
....TAENIOPTERYX	1	--	--	--	--
..TRICHOPTERA					
...HYDROPSYCHIDAE					
....CHEUMATOPSYCHE	2	8	13	182	164
....HYDROPSYCHE	--	--	--	4	--
...PHILOPOTAMIDAE					
....CHIMARRA	--	7	12	95	25
...POLYCENTROPODIDAE					
....POLYCENTROPUS	--	1	1	--	--
...RHYACOPHILIDAE					
....RHYACOPHILA	--	2	--	--	--
..DIPTERA					
...CHIRONOMIDAE					
....PSECTROCLADIUS	--	--	1	--	--
MOLLUSCA (MOLLUSCS)					
.GASTROPODA					
..BASOMMATOPHORA					
...PLANORBIDAE					
....HELISOMA	--	--	6	--	--
NEMATODA (NEMATODES)					
.UNKNOWN CLASS					
..UNKNOWN ORDER					
...UNKNOWN FAMILY					
....UNKNOWN GENUS	--	--	--	--	1
PLATYHELMINTHES (FLATWORMS)					
.TURBELLARIA					
..TRICLADIDA					
...UNKNOWN FAMILY					
....UNKNOWN GENUS	--	--	--	--	1

02463900 BEAR CREEK NEAR SAMANTHA, AL--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1			---	---	---	---	32	31	26	20		
2			---	---	---	---	33	32	22	20		
3			54	52	---	---	33	31	27	20		
4			58	51	---	---	33	32	21	19		
5			59	54	---	---	32	32	27	20		
6			60	53	---	---	31	30	23	21		
7			61	52	---	---	29	27	23	22		
8			60	52	---	---	28	26	28	22		
9			61	54	39	38	28	24	24	21		
10			62	53	38	37	33	28	24	21		
11			61	54	37	34	32	30	23	22		
12			63	53	35	30	30	29	22	22		
13			61	56	32	30	30	29	---	---		
14			62	54	35	32	29	24	---	---		
15			54	51	35	29	25	23	25	25		
16			59	54	30	29	25	24	28	25		
17			---	---	32	30	26	25	28	26		
18			---	---	32	30	25	23	28	25		
19			---	---	32	30	27	24	28	25		
20			---	---	31	26	27	25	27	25		
21			---	---	30	29	27	25	28	25		
22			---	---	31	30	28	26	28	25		
23			---	---	31	30	28	20	25	17		
24			---	---	31	30	26	18	18	17		
25			---	---	31	26	24	18	19	17		
26			---	---	27	26	23	18	19	17		
27			---	---	27	26	21	18	19	17		
28			---	---	28	26	20	18	20	19		
29			---	---	28	26	21	20	---	---		
30			---	---	28	27	21	20	---	---		
31			---	---	31	29	21	20	---	---		
MONTH			63	51	39	26	33	18	28	17		

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	40	35	49	37						
2	---	---	44	36	51	39						
3	---	---	37	32	58	39						
4	---	---	41	36	45	40						
5	---	---	41	28	46	40						
6	---	---	37	28	46	42						
7	---	---	30	27	50	45						
8	---	---	31	27	49	44						
9	---	---	41	30	46	43						
10	---	---	41	27	47	43						
11	---	---	37	27	49	43						
12	---	---	39	36	52	45						
13	---	---	41	36	60	46						
14	---	---	40	36	61	57						
15	---	---	40	37	64	59						
16	---	---	41	37	65	59						
17	---	---	41	38	66	60						
18	28	26	41	38	68	61						
19	29	27	46	39	71	64						
20	28	27	46	39	73	67						
21	29	27	46	40	77	68						
22	28	27	43	39	79	70						
23	27	26	46	37	83	70						
24	27	26	38	36	85	72						
25	28	27	45	36	89	79						
26	29	27	43	38	92	79						
27	35	29	42	37	95	79						
28	34	31	42	35	96	80						
29	36	30	42	36	---	---						
30	41	31	45	38	---	---						
31	---	---	47	37	---	---						
MONTH	41	26	47	27	96	37						

02463900 BEAR CREEK NEAR SAMANTHA, AL--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1			---	---	---	---	2.5	1.5	3.0	1.5	9.5	6.5
2			---	---	---	---	2.0	1.0	3.5	1.5	10.0	7.5
3			10.0	8.5	---	---	4.0	2.5	4.0	2.5	11.0	9.5
4			9.0	7.0	---	---	5.5	4.0	6.5	4.0	12.0	10.0
5			7.5	6.0	---	---	7.0	5.5	6.5	4.0	10.5	8.5
6			7.0	5.0	---	---	7.0	6.5	4.5	2.5	10.5	9.5
7			8.5	5.5	---	---	6.5	6.5	4.0	2.0	11.0	8.0
8			7.0	5.5	---	---	7.0	6.0	3.5	1.0	11.0	7.5
9			6.5	4.0	4.0	3.0	6.0	5.0	4.5	1.5	10.5	8.0
10			9.0	6.0	5.5	3.0	8.5	6.0	5.5	2.0	11.0	9.5
11			9.0	7.5	7.5	5.5	8.5	5.5	6.0	4.0	13.0	11.0
12			8.0	6.0	10.5	7.5	5.5	4.0	6.0	---	13.5	11.0
13			6.5	4.5	10.0	7.5	6.5	6.0	---	---	13.5	10.0
14			6.5	6.0	8.0	6.5	8.5	6.5	---	---	13.5	9.5
15			7.5	6.5	9.0	8.0	8.5	7.5	8.0	6.0	14.0	10.5
16			7.0	5.5	9.5	7.5	7.0	4.0	6.0	3.5	14.0	12.0
17			---	---	7.5	6.5	4.0	2.0	6.5	3.5	13.0	11.0
18			---	---	8.0	6.0	3.0	2.0	8.0	4.0	15.0	13.0
19			---	---	8.5	6.0	2.0	0.5	8.5	5.5	15.0	13.0
20			---	---	10.5	7.5	3.0	1.5	7.0	4.5	14.5	12.5
21			---	---	7.5	4.5	3.0	2.0	7.0	3.5	13.0	12.0
22			---	---	4.5	3.0	3.5	2.0	8.5	4.0	12.5	10.5
23			---	---	4.0	2.5	4.0	2.5	10.0	8.0	12.0	8.5
24			---	---	3.5	2.0	6.5	4.0	10.5	9.0	12.0	9.0
25			---	---	8.0	3.0	6.5	5.5	11.5	8.0	14.5	11.0
26			---	---	8.0	6.5	6.5	4.0	13.5	10.0	14.5	11.5
27			---	---	7.5	5.5	8.0	6.5	12.5	9.0	15.5	13.5
28			---	---	8.5	7.0	8.0	6.0	9.5	7.0	15.0	13.5
29			---	---	7.5	5.0	5.5	2.5	---	---	13.5	12.5
30			---	---	6.0	4.5	3.5	2.0	---	---	16.0	13.5
31			---	---	6.0	3.0	4.0	2.5	---	---	15.5	13.0
MONTH			10.0	4.0	10.5	2.0	8.5	0.5	13.5	1.0	16.0	6.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	14.0	13.0	18.5	15.5	24.0	21.5						
2	16.5	13.0	17.5	16.0	22.5	20.0						
3	16.0	13.5	18.0	17.0	22.5	20.5						
4	15.5	13.5	18.0	17.5	22.5	20.0						
5	13.5	12.0	20.5	17.0	22.5	20.5						
6	14.0	10.0	20.5	18.0	23.5	21.5						
7	15.0	10.5	22.0	18.5	23.5	21.5						
8	15.5	12.0	21.5	19.5	21.0	19.0						
9	15.5	12.5	21.5	19.0	20.5	18.5						
10	16.0	13.0	19.5	16.0	22.0	20.0						
11	16.5	13.5	19.0	15.5	23.0	21.0						
12	17.0	14.0	19.0	15.5	25.0	22.5						
13	17.5	15.0	19.5	15.5	26.0	23.5						
14	18.0	15.0	19.5	16.0	25.0	23.5						
15	16.5	15.0	19.5	16.0	24.5	23.5						
16	---	---	19.5	17.0	24.5	23.0						
17	---	---	20.0	17.5	26.0	23.0						
18	18.0	17.0	20.5	18.5	26.5	23.5						
19	18.5	16.0	20.5	18.5	27.0	24.0						
20	19.0	17.0	20.5	19.0	27.0	24.0						
21	18.0	17.5	22.0	19.5	28.0	24.5						
22	17.5	17.0	21.5	20.5	28.0	25.0						
23	18.5	16.5	20.0	19.0	28.5	25.5						
24	17.5	16.0	21.5	19.0	28.0	25.5						
25	17.0	14.5	20.5	19.0	27.5	25.0						
26	15.0	13.0	21.5	19.0	27.5	25.5						
27	15.5	12.0	22.0	19.5	28.5	25.0						
28	16.0	12.5	23.0	20.5	29.0	25.5						
29	17.0	14.0	23.5	20.5	---	---						
30	18.5	15.5	23.0	21.0	---	---						
31	---	---	23.0	21.5	---	---						
MONTH	19.0	10.0	23.5	15.5	29.0	18.5						

02463900 BEAR CREEK NEAR SAMANTHA, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
NOV				
03...	1235	1.4	4	.02
DEC				
06...	0920	2.8	3	.02
06...	0925	2.8	5	.04
10...	1600	3.8	2	.02
20...	1700	77	1	.21
20...	1730	74	24	4.8
20...	1745	72	6	1.2
20...	1825	70	9	1.7
21...	0630	45	9	1.1
21...	1325	37	14	1.4
21...	1412	35	4	.38
21...	1830	34	10	.92
28...	1610	27	5	.36
28...	1815	26	2	.14
29...	0600	21	2	.11
29...	1020	20	4	.22
29...	1025	20	4	.22
29...	1815	18	3	.15
30...	1505	13	3	.11
30...	1810	13	4	.14

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
DEC				
31...	0610	12	4	.13
31...	0805	12	3	.10
31...	1810	10	5	.13
JAN				
01...	1810	8.9	4	.10
05...	1600	12	4	.13
14...	0235	33	21	1.9
14...	0405	46	15	1.9
14...	0525	70	46	8.7
14...	0550	81	78	17
14...	0625	97	60	16
14...	0720	114	67	21
14...	0815	152	58	24
14...	0915	197	104	55
14...	1050	230	214	133
14...	1055	234	145	92
14...	1150	237	115	74
14...	1245	163	123	54
14...	1250	163	138	61

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JAN				
14...	1300	234	83	52
14...	1315	228	84	52
14...	1655	202	111	61
14...	1700	202	127	69
14...	1735	195	60	32
14...	1740	195	29	15
14...	1750	189	45	23
14...	2120	158	87	37
14...	2125	158	55	23
14...	2127	158	28	12
14...	2130	158	32	14
14...	2220	149	90	36
14...	2225	149	26	10
15...	0235	124	28	9.4
15...	0245	124	24	8.0
15...	0250	126	26	8.8
15...	0545	110	31	9.2
15...	0925	94	17	4.3
15...	0930	94	11	2.8
15...	1745	73	15	3.0

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JAN				
15...	1945	70	10	1.9
15...	1950	70	2	.38
15...	1955	68	6	1.1
16...	0915	49	7	.93
16...	1110	46	7	.87
16...	1115	46	6	.75
16...	1140	46	5	.62
16...	1745	40	5	.54
25...	1727	43	8	.93
25...	1737	44	2	.24
28...	0812	28	8	.60
28...	0818	28	7	.53
28...	0830	28	6	.45
28...	0835	28	1	.08
28...	1735	24	5	.32
28...	2300	21	4	.23
28...	2305	21	79	4.5
28...	2310	21	58	3.3
28...	2320	21	117	6.6

02463900 BEAR CREEK NEAR SAMANTHA, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JAN				
28...	2325	21	36	2.0
28...	2330	21	5	.28
28...	2331	21	5	.28
28...	2332	21	5	.28
29...	0245	20	4	.22
29...	0305	20	3	.16
29...	0535	19	5	.26
29...	1735	17	3	.14
FEB				
12...	1015	6.4	18	.31
12...	1023	6.4	5	.09
12...	1730	7.7	5	.10
13...	0525	6.5	6	.11
13...	1220	5.8	5	.08
13...	1230	6.0	5	.08
13...	1235	6.0	4	.06
13...	1245	6.2	6	.10
13...	1255	6.2	8	.13
14...	0525	5.7	7	.11
14...	1725	5.5	7	.10
15...	0525	5.2	7	.10
FEB				
15...	1405	5.0	8	.11
15...	1442	5.0	7	.09
15...	1618	4.9	5	.07
15...	1700	4.9	4	.05
16...	0500	4.7	3	.04
16...	0525	4.7	2	.03
16...	1725	4.6	4	.05
17...	1725	4.4	3	.03
18...	0525	4.4	2	.02
18...	1725	4.6	3	.04
19...	0525	4.4	1	.01
19...	1725	4.3	2	.02
20...	0525	4.2	1	.01
20...	1725	4.0	3	.03
21...	0520	4.0	1	.01
21...	0950	3.9	4	.04
21...	1720	3.9	5	.05
22...	0520	3.9	6	.06
22...	1720	3.9	8	.08

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
FEB				
23...	0520	3.9	112	1.2
23...	1610	5.5	59	.88
23...	1935	14	867	33
23...	2005	127	1030	353
23...	2025	290	1130	885
23...	2110	380	1790	1840
23...	2130	437	1640	1940
23...	2135	449	953	1160
24...	0515	378	1080	1100
24...	1545	206	1120	623
24...	1550	204	63	35
24...	1600	202	1470	802
25...	1140	80	16	3.5
MAR				
03...	2200	32	3	.26
03...	2400	51	136	19
04...	0113	267	338	244
04...	0215	449	441	535
04...	0745	963	444	1150
06...	1010	290	60	47
11...	0815	19	4	.21
MAR				
11...	1705	18	4	.19
12...	0320	21	37	2.1
12...	0425	38	39	4.0
12...	0445	61	237	39
12...	0500	64	166	29
12...	0515	110	168	50
12...	0525	122	266	88
12...	0535	142	282	108
12...	0540	164	302	134
12...	0550	189	314	160
12...	0555	267	357	257
12...	0600	294	424	337
12...	0605	323	412	359
12...	0610	350	520	491
12...	0615	356	628	604
12...	0620	361	635	619
12...	0625	367	555	550
12...	0635	372	730	733
12...	0640	378	547	558

02463900 BEAR CREEK NEAR SAMANTHA, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAR				
12...	0645	383	528	546
12...	0655	389	519	545
12...	0700	597	496	800
12...	0710	634	462	791
12...	0715	672	471	855
12...	0725	714	515	993
12...	0745	758	642	1310
12...	0755	802	592	1280
12...	0810	855	609	1410
12...	0825	890	561	1350
12...	0830	926	558	1400
12...	0900	972	575	1510
12...	0910	981	593	1570
12...	0940	991	636	1700
12...	0945	1010	490	1340
12...	0950	1020	513	1410
12...	1000	1020	451	1240
12...	1010	1030	454	1260
12...	1015	1040	364	1020
12...	1025	1050	501	1420

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAR				
12...	1030	1050	458	1300
12...	1035	1060	466	1330
12...	1040	1060	472	1350
12...	1045	1070	465	1340
12...	1050	1070	454	1310
12...	1125	1070	405	1170
12...	1142	1060	395	1130
12...	1155	1060	347	993
12...	1200	1050	430	1220
12...	1240	1040	442	1240
12...	1245	1020	355	978
12...	1250	1000	324	875
12...	1315	926	347	868
12...	1345	972	297	779
12...	1407	857	274	634
12...	1410	820	271	600
12...	1425	785	263	557
12...	1445	751	271	550
12...	1500	718	260	504

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAR				
12...	1515	678	280	513
12...	1520	646	281	490
12...	1535	616	259	431
12...	1550	632	242	413
12...	1555	619	295	493
12...	1600	616	570	948
12...	1607	593	267	427
12...	1610	581	260	408
12...	1630	557	278	418
12...	1650	532	311	447
12...	1700	518	243	340
12...	1710	495	271	362
12...	1715	472	246	314
12...	1740	449	288	349
12...	1810	440	230	273
12...	1815	433	248	290
12...	1845	426	304	350
12...	1847	418	247	279
12...	1850	411	217	241
12...	1855	404	236	257

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAR				
12...	1932	383	204	211
12...	1935	367	208	206
12...	2027	361	233	227
12...	2030	350	172	163
12...	2040	345	161	150
12...	2137	332	189	169
12...	2140	327	183	162
12...	2145	323	151	132
12...	2150	320	150	130
12...	2305	296	173	138
12...	2310	294	122	97
12...	2317	290	104	81
12...	2320	288	179	139
12...	2357	286	105	81
13...	0100	267	84	61
13...	0120	262	90	64
13...	0327	245	101	67
13...	0330	242	78	51
13...	0335	239	75	48

02463900 BEAR CREEK NEAR SAMANTHA, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAR				
13...	0350	236	67	43
13...	0500	221	86	51
13...	0647	213	62	36
13...	0650	213	84	48
13...	0712	195	73	38
13...	0715	194	49	26
13...	1050	164	61	27
13...	1055	161	38	17
13...	1100	158	43	18
13...	1105	157	46	19
13...	1135	155	40	17
13...	1140	154	47	20
13...	1145	152	41	17
13...	1530	128	41	14
13...	1622	128	37	13
13...	1625	124	25	8.4
13...	1630	122	30	9.9
13...	1700	119	28	9.0
13...	2235	97	23	6.0
13...	2240	97	19	5.0

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAR				
13...	2250	96	17	4.4
13...	2255	96	17	4.4
13...	2257	96	17	4.4
13...	2300	95	18	4.6
13...	2305	95	19	4.9
13...	2350	94	18	4.6
13...	2355	92	21	5.2
13...	2400	88	18	4.3
14...	0010	87	33	7.8
15...	1014	35	9	.85
15...	1405	34	6	.55
15...	1420	34	7	.64
15...	1430	34	9	.83
15...	1440	34	9	.83
15...	1445	34	8	.73
15...	1452	34	7	.64
15...	1455	34	7	.64
15...	1500	34	39	3.6
15...	1505	34	8	.73

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAR				
15...	1510	34	5	.46
15...	1515	34	5	.46
15...	1520	34	6	.55
15...	1522	34	2	.18
15...	1525	33	6	.53
15...	1530	33	6	.53
15...	1535	33	6	.53
15...	1540	33	7	.62
15...	1545	33	4	.36
15...	1547	33	5	.45
15...	1550	33	4	.36
15...	1555	33	5	.45
15...	1557	33	4	.36
15...	1600	32	5	.43
15...	1615	32	5	.43
15...	1750	32	6	.52
15...	1805	31	5	.42
15...	1807	31	4	.33
15...	1810	31	4	.33
15...	1825	31	5	.42

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAR				
15...	1830	31	6	.50
15...	1832	31	5	.42
15...	1835	31	7	.59
15...	1840	31	6	.50
15...	1845	31	5	.42
15...	1850	31	5	.42
15...	1855	31	5	.42
16...	0455	26	5	.35
16...	1855	20	4	.22
17...	0455	18	4	.19
17...	1455	18	4	.19
17...	1650	16	2	.09
18...	0450	15	3	.12
18...	1650	13	2	.07
18...	2055	13	3	.11
18...	2100	12	3	.10
19...	0445	12	3	.10
19...	1645	10	3	.08
20...	1640	8.5	3	.07

02463900 BEAR CREEK NEAR SAMANTHA, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAR				
21...	0440	7.7	3	.06
25...	1328	11	9	.27
25...	1330	11	0	.00
28...	0925	11	237	7.0
28...	0945	13	248	8.7
28...	1610	43	35	4.1
29...	0410	25	4	.27
29...	1605	32	13	1.1
31...	1407	37	5	.50
31...	1524	36	6	.58
31...	1640	35	6	.57
31...	1925	33	6	.53
31...	1940	33	4	.36
31...	1950	33	5	.45
31...	2000	33	3	.27
31...	2005	33	4	.36
31...	2215	32	3	.26
31...	2305	30	5	.40
APR				
01...	0435	28	3	.23
01...	1435	31	4	.33

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
APR				
01...	1510	32	4	.35
01...	1830	32	2	.17
01...	1900	32	4	.35
03...	0945	484	145	189
03...	0957	476	150	193
04...	1200	983	288	764
04...	1309	364	302	297
04...	1331	433	591	691
04...	1340	449	1600	1940
04...	1345	462	1730	2160
04...	1350	500	1740	2350
04...	1352	526	1760	2500
04...	1355	872	1560	3670
04...	1400	917	1870	4630
04...	1405	1010	2510	6850
04...	1415	1120	2520	7620
04...	1420	1290	2320	8080
04...	1430	1460	2000	7880
04...	1435	1530	1930	7970

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
APR				
04...	1445	1680	1250	5670
04...	1500	1720	961	4460
04...	1515	1800	1130	5490
04...	1540	1980	883	4720
04...	1620	2140	562	3250
04...	1635	2230	648	3900
04...	1715	2310	540	3370
04...	1830	2560	318	2200
04...	1831	2560	1120	7740
04...	1906	2570	575	3990
04...	1951	2380	295	1900
04...	2025	2200	151	897
04...	2056	2010	398	2160
04...	2145	1690	188	858
04...	2230	1360	196	720
05...	0020	323	360	314
05...	0030	323	292	255
05...	0035	323	169	147
05...	0110	787	324	688
05...	0300	631	89	152

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
APR				
05...	0420	572	97	150
05...	0435	559	203	306
05...	0605	500	122	165
05...	0755	434	42	49
05...	0800	438	62	73
05...	1000	378	51	52
05...	1222	164	50	22
05...	1225	161	33	14
05...	1535	273	36	27
05...	1635	256	42	29
05...	2040	201	25	14
05...	2050	197	66	35
06...	0435	138	96	36
06...	0705	123	43	14
06...	0710	123	54	18
06...	0835	119	39	13
06...	1630	90	43	10
07...	0005	56	24	3.6
07...	0020	58	20	3.1

02463900 BEAR CREEK NEAR SAMANTHA, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
APR				
07...	0025	58	19	3.0
07...	0035	61	33	5.4
07...	0040	63	22	3.7
07...	0045	65	15	2.6
07...	0050	67	46	8.3
07...	0055	68	22	4.0
07...	0100	70	19	3.6
07...	0105	69	20	3.7
07...	0110	68	37	6.8
07...	0312	67	18	3.3
07...	0315	67	15	2.7
07...	0320	67	15	2.7
07...	0325	67	15	2.7
07...	0330	66	17	3.0
07...	0340	66	13	2.3
07...	0345	66	39	6.9
07...	0400	64	8	1.4
07...	0430	62	167	28
07...	1630	46	148	18
08...	0425	34	95	8.7
APR				
08...	0500	34	50	4.6
08...	0505	34	34	3.1
08...	0525	33	40	3.6
11...	1220	11	10	.30
11...	1230	27	--	--
18...	1503	4.0	4	.04
18...	1615	4.0	4	.04
19...	0410	4.1	1	.01
19...	0415	3.8	1	.01
19...	1615	3.6	0	.00
20...	0410	3.3	1	.01
20...	1610	3.2	0	.00
21...	0405	2.9	1	.01
21...	1605	3.2	1	.01
22...	0405	3.3	4	.04
25...	1400	2.7	1	.01
26...	1545	2.4	1	.01
26...	1730	2.4	2	.01
26...	1735	2.4	0	.00

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
APR				
26...	1750	2.4	38	.25
26...	1835	2.4	0	.00
27...	0345	2.2	3	.02
27...	1545	2.2	3	.02
28...	0340	2.1	2	.01
28...	1540	2.1	0	.00
29...	0335	1.9	2	.01
MAY				
01...	0330	1.7	1	.00
02...	0325	1.6	3	.01
02...	1525	1.6	3	.01
11...	1331	1.2	11	.04
11...	1900	1.1	11	.03
12...	1900	1.0	9	.02
13...	1855	.94	9	.02
14...	1855	.89	8	.02
15...	1855	.85	7	.02
16...	1850	.85	7	.02
17...	1850	.80	9	.02
18...	0900	.75	4	.01
18...	1850	.71	8	.02
MAY				
19...	1845	.66	9	.02
20...	0940	.58	9	.01
20...	1005	.58	11	.02
20...	1845	.58	8	.01
23...	1840	1.2	15	.05
24...	0235	2.7	11	.08
JUN				
04...	1820	.40	9	.01
05...	1820	.33	8	.01
06...	1747	.31	15	.01
07...	1750	.29	9	.01
08...	1745	.29	5	.00
09...	1745	.29	4	.00
10...	1625	.27	4	.00
11...	0010	.27	4	.00
11...	1150	.27	4	.00
11...	1740	.25	4	.00
12...	1740	.23	1	.00
20...	1315	.40	165	.18

02463900 BEAR CREEK NEAR SAMANTHA, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JUL				
20...	1315	--	165	--
AUG				
03...	1145	.89	10	.02
04...	1130	1.0	27	.07
05...	1130	.94	8	.02
06...	1130	.80	10	.02
07...	1125	.71	10	.02
08...	1125	.66	11	.02
09...	1125	.58	10	.02
10...	0950	.50	14	.02
10...	1120	.50	13	.02
10...	1325	.50	10	.01
11...	1120	.46	10	.01
12...	1120	.46	8	.01
13...	1115	.40	8	.01
14...	1115	.40	8	.01
15...	1115	.36	11	.01
16...	1115	.33	8	.01
17...	1110	.33	6	.01
18...	1110	.46	18	.02
19...	1110	E.16	14	.01

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
AUG				
20...	1105	E.10	13	.00
21...	1105	E.07	11	.00
22...	1105	E.06	5	.00
23...	1105	E.10	5	.00
24...	1105	E.20	5	.00
25...	1105	E.20	6	.00
26...	1100	E.10	1	.00
27...	1100	E.05	4	.00
28...	1100	E.03	5	.00
29...	1100	E.02	7	.00
30...	1055	E.01	2	.00
SEP				
01...	1055	E.00	4	.00
02...	1055	E.00	8	.00
03...	1050	E.00	4	.00
04...	1050	E.00	19	.00
05...	1050	E.00	5	.00
06...	1050	E1.7	3	.01

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
SEP				
06...	2250	E1.7	360	1.7
06...	2255	--	350	--
06...	2300	1.8	341	1.7
07...	0035	E4.0	135	1.5
07...	0210	E4.0	783	8.5
07...	0420	E4.0	79	.85
07...	0845	E4.0	164	1.8
07...	1045	E4.0	154	1.7
08...	1030	E2.0	45	.24
09...	1045	E.90	23	.06
10...	1045	E.50	18	.02
11...	1045	E.40	11	.01
12...	1040	E.30	15	.01
13...	1040	E.45	15	.02
14...	1040	.46	16	.02
15...	1040	.40	10	.01
16...	1040	1.9	22	.11
16...	1330	1.0	11	.03
17...	1035	2.1	8	.05
18...	1035	1.3	13	.05

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
SEP				
18...	1050	1.3	11	.04
19...	1035	.89	11	.03
20...	0835	.75	13	.03
20...	0900	.82	4	.01
20...	0903	.71	11	.02
20...	0930	--	11	--
20...	1025	.71	11	.02
21...	1025	.62	8	.01
22...	1020	.54	10	.01
23...	1020	.43	10	.01
24...	1020	.40	6	.01
25...	1020	.40	8	.01
26...	1015	.50	13	.02
26...	1050	1.2	18	.06
26...	1505	6.9	82	1.5
26...	1510	7.3	76	1.5
27...	1515	2.4	44	.29
28...	1015	1.8	27	.13
28...	1332	1.6	27	.12

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
SEP				
28...	1335	1.6	37	.16
29...	1015	1.2	12	.04

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
SEP				
30...	1010	3.8	13	.13

02464000 NORTH RIVER NEAR SAMANTHA, AL

LOCATION.--Lat 33°28'45", long 87°35'50", in SW¼ sec. 16, T. 18 S., R. 10 W., Tuscaloosa County, Hydrologic Unit 03160112, on left bank about 200 ft (61 m) downstream from bridge on county road, 1.2 mi (1.9 km) upstream from Cripple Creek, 4 mi (6 km) north of Samantha, and at mile 36.9 (59.4 km).

DRAINAGE AREA.--219 mi^2 (567 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1938 to September 1954, October 1968 to current year.

REVISED RECORDS.--WSP 1304: 1939(M), Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 232.39 ft (70.832 m) above mean sea level. Prior to Jan. 25, 1939, nonrecording gage 40 ft (12 m) downstream at same datum.

REMARKS.--Water-discharge record good.

AVERAGE DISCHARGE.--24 years (water years 1939-54, 1968-77), 379 ft^3/s (10.73 m^3/s), 23.50 in/yr (597 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,500 ft^3/s (722 m^3/s) Mar. 20, 1970, gage height, 35.08 ft (10.692 m); minimum, 0.1 ft^3/s (0.003 m^3/s) Sept. 5-8, 13-15, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of July 1916 and February 1936 reached a stage of about 31 ft (9.4 m), from information by local residents.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,000 ft^3/s (142 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 10	0400	5700	161	12.83	3.911	Mar. 12	1800	7430	210	15.91	4.849
Mar. 4	1700	7480	212	15.98	4.871	Apr. 5	0500	*11800	334	22.55	6.873

Minimum discharge, 84 ft^3/s (0.24 m^3/s) July 7, 8, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	43	91	157	238	1280	791	78	24	12	296	12
2	19	35	67	132	213	828	724	73	23	12	80	11
3	17	29	54	151	204	656	6100	72	22	11	142	11
4	15	27	47	186	202	5740	8160	75	21	10	81	10
5	15	26	42	179	190	4320	10900	82	19	9.4	79	11
6	36	24	40	185	167	3060	4510	79	17	8.9	56	30
7	72	25	52	659	153	2050	1560	66	19	8.7	44	1010
8	43	26	55	571	141	1300	1100	61	21	8.5	36	240
9	30	26	46	2520	136	903	821	59	24	9.5	30	97
10	25	24	42	4500	131	690	623	51	20	13	36	63
11	23	27	45	1740	126	570	492	46	17	11	22	54
12	21	38	548	926	136	4500	393	45	15	11	19	52
13	20	45	898	686	192	5060	315	45	14	19	17	40
14	18	50	371	1580	164	1730	275	42	13	34	17	39
15	17	89	271	1900	145	1090	241	39	12	22	16	54
16	17	70	214	1130	120	756	208	38	12	18	16	150
17	19	52	150	773	113	585	182	36	13	20	40	223
18	19	44	121	619	112	504	159	35	16	28	53	125
19	19	39	98	461	112	410	143	35	21	21	45	86
20	18	37	258	394	110	399	129	43	26	38	29	74
21	18	49	509	347	105	442	121	40	19	27	23	63
22	17	44	258	300	104	999	150	38	15	21	20	49
23	18	37	178	264	370	685	457	47	14	17	19	41
24	19	33	136	780	3820	539	1060	74	14	15	18	35
25	38	33	486	978	2180	439	1130	56	42	28	21	33
26	79	35	1410	695	1300	363	294	37	34	74	26	804
27	48	39	683	551	2790	319	109	33	24	73	21	493
28	31	148	434	477	1960	477	99	35	23	89	19	173
29	25	449	303	359	---	752	92	37	16	461	16	131
30	26	162	216	296	---	1640	84	31	14	143	15	343
31	40	---	191	265	---	1240	---	26	---	104	13	---
TOTAL	844	1805	8314	24761	15734	44326	41422	1554	584	1377.0	1365	4557
MEAN	27.2	60.2	268	799	562	1430	1381	50.1	19.5	44.4	44.0	152
MAX	79	449	1410	4500	3820	5740	10900	82	42	461	296	1010
MIN	15	24	40	132	104	319	84	26	12	8.5	13	10
CFSM	.12	.28	1.22	3.65	2.57	6.53	6.31	.23	.09	.20	.20	.69
IN.	.14	.31	1.41	4.21	2.67	7.53	7.04	.26	.10	.23	.23	.77

CAL YR 1976 TOTAL 155898.0 MEAN 426 MAX 5130 MIN 11 CFSM 1.95 IN 26.48
WTR YR 1977 TOTAL 146643.0 MEAN 402 MAX 10900 MIN 8.5 CFSM 1.84 IN 24.91

02464000 NORTH RIVER NEAR SAMANTHA, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1972 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water years 1966, 1967, 1968, and 1971.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
SEP 30...	327	114	7.0	21.0	8.7	30	21	4.8	4.3	7.9	.6

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)
SEP 30...	1.5	11	0	20	7.4	.1	8.0	61	53.9	.25	1.1

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
SEP 30...	ND	ND	ND	<1	230	1	280	ND	60	50

02465000 BLACK WARRIOR RIVER AT NORTHPORT, AL

LOCATION.--Lat 33°12'51", long 87°34'50", in NE¼ sec. 21, T. 21 S., R. 10 W., Tuscaloosa County, Hydrologic Unit 03160112, attached to loading dock at Alabama State Dock Facility, at Northport 0.2 mi (0.3 km) downstream from Gulf, Mobile & Ohio Railroad bridge, 0.35 mi (0.56 km) upstream from Oliver lock and dam, 0.9 mi (1.4 km) downstream from Two Mile Creek, 5.2 mi (8.4 km) downstream from North River, and at mile 126.6 (203.7 km).

DRAINAGE AREA.--4,828 mi^2 (12,504 km^2)

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1889 to September 1894 (gage heights only), October 1894 to December 1902, January 1903 to December 1905 (gage heights and discharge measurements only), August 1928 to current year. Monthly discharge only for period October to December 1894, published in WSP 1304.

REVISED RECORDS.--WSP 1002: 1940-43. WSP 1384: Drainage area. WSP 1624: 1900.

GAGE.--Water-stage recorder. Datum of gage is 83.35 ft (25.405 m) above mean sea level. See WSP 2106 for history of changes prior to Mar. 19, 1951. Mar. 20, 1951 to Feb. 13, 1974, water-stage recorder 0.35 mi (0.56 km) upstream on pier of former bridge at present datum. Feb. 14, 1974 to Aug. 7, 1974 nonrecording gage at site 0.35 mi (0.56 km) downstream at datum 1.08 ft (0.329 m) lower. Subsequent to Apr. 19, 1944, auxiliary water-stage recorder, and Aug. 29, 1939, to Apr. 18, 1944, auxiliary nonrecording gage, 500 ft (152 m) downstream from Oliver lock and dam at datum 1.08 ft (0.329 m) lower.

REMARKS.--Water-discharge records good above 6,000 ft^3/s (170 m^3/s) and poor below. Some regulation by Lewis Smith Reservoir on Sipsey Fork (station 02451950), by Bankhead lock and dam on Black Warrior River, usable capacity, 112,000 acre-ft (138 hm^3), Holt lock and dam on Black Warrior River, usable capacity 115,000 acre-ft (142 hm^3), and occasionally during periods of low flow by Oliver lock and dam downstream from gage. National Weather Service rain gage and gage height telemeters at station.

AVERAGE DISCHARGE.--57 years (water years 1894-1902, 1928-77) 7,868 ft^3/s (222.8 m^3/s), 22.13 in/yr (562 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 224,000 ft^3/s (6,340 m^3/s) Feb. 21, 1961; maximum gage height, 67.7 ft (20.63 m) Apr. 18, 1900; minimum daily discharge, 37 ft^3/s (1.05 m^3/s) Oct. 23, 1953.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 161,000 ft^3/s (4,560 m^3/s) Apr. 5, gage height, 59.7 ft (18.20 m); minimum daily, 255 ft^3/s (7.22 m^3/s) July 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1640	1000	4660	5760	5490	16000	33300	2520	4680	2300	392	1700
2	1870	2280	3400	5340	3740	13500	20900	3410	1160	2800	2010	1410
3	611	493	1410	4390	3140	13500	53900	2110	1020	1360	3950	782
4	484	395	942	3820	5920	44000	106000	3100	815	762	5420	596
5	1710	1130	2600	5120	1380	49000	122000	2990	856	2380	3890	697
6	2860	495	2900	2120	1970	61500	96100	3250	1960	2690	2670	1940
7	2720	684	4300	3990	6460	43300	62700	1740	860	2510	1100	16900
8	3640	2460	3200	3280	2860	31700	37800	2940	990	2520	3760	19700
9	2510	1280	4840	3480	3360	19600	28400	2990	1900	2240	3640	7130
10	633	1230	960	2500	2120	21300	22500	2600	1560	1620	2900	1730
11	683	543	9250	10500	4780	16400	18100	2350	1640	2520	2480	1910
12	1060	1660	12000	14200	841	35400	15500	2420	839	1940	2150	3800
13	709	1540	9560	15100	1770	79500	14800	2880	2520	4100	809	4590
14	885	1380	7400	16500	3740	67200	12700	740	2630	2470	719	5880
15	490	2140	8080	18800	4290	47600	12300	657	1850	2530	2000	5850
16	667	2600	10200	17500	4140	19500	12100	1520	2850	1630	2060	6510
17	560	2560	6750	14800	2240	20700	11600	3790	2680	263	2140	6400
18	703	2030	4460	12500	1770	15000	8950	4450	3480	3800	1940	1530
19	1630	1760	3830	12000	894	16400	7370	1170	1950	2690	1950	5900
20	561	930	8090	12100	1290	14900	8530	1470	3290	2060	834	4970
21	1660	882	12100	10800	4000	16200	7620	1430	3220	2390	1680	3880
22	2070	2570	11100	9820	3400	29200	8530	1140	1290	1670	2030	2960
23	650	2400	8300	7700	4500	21000	8060	2500	1970	255	1740	3690
24	461	1500	9070	10500	39300	19700	10100	3120	2340	2260	2510	786
25	1450	747	13600	17700	31900	14900	8220	3020	2160	3400	3840	1070
26	1680	755	16700	13100	17000	14000	4780	2250	1660	4200	5460	11000
27	1080	662	12800	12200	29600	12000	3960	3080	1970	3810	5170	10000
28	2510	2460	12200	10700	26900	12200	4200	3260	1860	5570	951	7560
29	1590	7870	8190	4670	---	19500	4200	2210	3400	8100	2260	8040
30	758	8310	5820	4230	---	41000	3290	3460	2410	2670	2770	12300
31	629	---	6310	6570	---	38600	---	2290	---	2690	1440	---
TOTAL	41164	56746	225022	291790	218795	884300	768510	76657	61810	82200	76665	161211
MEAN	1328	1892	7259	9413	7814	28530	25620	2479	2060	2652	2473	5374
MAX	3640	8310	16700	18800	39300	79500	122000	4450	4680	8100	5460	19700
MIN	461	395	942	2120	841	12000	3290	657	815	255	392	596
CFSM	.28	.39	1.50	1.95	1.62	5.91	5.31	.51	.43	.55	.51	1.11
IN.	.32	.44	1.73	2.25	1.69	6.81	5.92	.59	.48	.63	.59	1.24

CAL YR 1976 TOTAL 3267240 MEAN 8927 MAX 100000 MIN 395 CFSM 1.85 IN 25.17
WTR YR 1977 TOTAL 2945070 MEAN 8069 MAX 122000 MIN 255 CFSM 1.67 IN 22.69

02465000 BLACK WARRIOR RIVER AT NORTHPORT, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1960 to current year.

PERIOD OF DAILY RECORD.--
CHEMICAL ANALYSES: October 1966 to September 1972.
SPECIFIC CONDUCTANCE: October 1966 to September 1972.
WATER TEMPERATURES: November 1960 to current year.

INSTRUMENTATION.--Temperature recorder since November 1960.

REMARKS.--No temperature data Nov. 13-Jan. 4 due to recorder malfunction, Mar. 23-Apr. 11 flood destroyed gage.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 35.0°C Aug. 6, 1963; minimum (water years 1961-70, 1972-73, 1976-77), 4.0°C Jan. 21-25, Feb. 2, 1977.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 31.5°C July 8; minimum, 4.0°C Jan. 21-25, Feb. 2.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
SEP 30...	12300	229	7.3	26.0	8.2	77	50	15	9.5	13	.6

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)
SEP 30...	2.7	33	0	48	9.4	.1	5.2	130	4320	2.5

DATE	DISSOLVED NITRATE (NO3) (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
SEP 30...	11	<1	ND	ND	<1	10	1	110	100	20

02465000 BLACK WARRIOR RIVER AT NORTHPORT, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	25.5	25.0	18.0	17.5			---	---	4.5	4.5	10.5	10.0
2	25.0	24.5	17.5	17.0			---	---	4.5	4.0	10.5	10.0
3	25.0	24.5	17.5	17.0			---	---	4.5	4.5	11.0	10.5
4	25.0	24.5	17.5	17.0			---	---	5.0	4.5	11.5	10.5
5	25.0	24.5	17.0	17.0			7.5	7.0	5.0	5.0	12.0	11.5
6	24.5	24.0	17.0	16.5			7.0	7.0	5.0	5.0	12.0	12.0
7	24.5	24.0	17.0	16.5			7.0	7.0	5.0	5.0	12.0	11.5
8	24.0	23.5	16.5	15.5			7.0	6.5	5.0	4.5	12.0	11.5
9	23.5	23.0	16.0	15.5			6.5	6.0	5.5	5.0	12.0	12.0
10	23.5	23.0	15.5	15.5			6.0	5.5	5.5	5.0	12.0	12.0
11	23.0	22.5	15.5	15.5			5.5	5.0	5.5	5.0	12.0	12.0
12	22.5	22.5	15.5	15.5			5.5	5.0	5.5	5.5	12.5	12.0
13	22.5	22.5	---	---			5.5	5.0	6.0	5.5	12.5	12.0
14	22.5	22.5	---	---			5.5	5.5	6.5	5.5	13.5	12.5
15	22.5	22.5	---	---			5.5	5.5	6.5	6.0	14.5	13.5
16	22.5	22.0	---	---			5.5	5.5	6.0	5.5	15.0	14.5
17	22.0	22.0	---	---			5.0	5.0	6.0	5.5	15.0	15.0
18	22.0	21.5	---	---			5.0	4.5	6.5	6.0	15.5	15.0
19	21.5	21.0	---	---			4.5	4.5	7.0	6.5	15.5	15.0
20	21.0	20.5	---	---			4.5	4.5	7.0	7.0	15.5	15.5
21	20.5	19.5	---	---			4.5	4.0	7.5	7.0	15.5	15.0
22	20.0	19.5	---	---			4.0	4.0	7.0	6.5	15.0	15.0
23	20.0	19.5	---	---			4.5	4.0	8.0	7.0	---	---
24	20.0	19.5	---	---			4.5	4.0	8.0	7.5	---	---
25	20.0	19.5	---	---			4.5	4.0	8.5	8.0	---	---
26	20.0	19.5	---	---			4.5	4.5	9.0	8.0	---	---
27	19.5	19.0	---	---			5.0	4.5	9.5	8.5	---	---
28	19.0	18.5	---	---			5.0	4.5	10.0	9.0	---	---
29	18.5	18.0	---	---			5.0	4.5	---	---	---	---
30	18.0	18.0	---	---			4.5	4.5	---	---	---	---
31	18.0	17.5	---	---			4.5	4.5	---	---	---	---
MONTH	25.5	17.5	18.0	15.5			7.5	4.0	10.0	4.0	15.5	10.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	21.5	20.5	27.0	21.5	29.5	29.0	30.0	30.0	30.0	29.5
2	---	---	21.0	20.5	27.0	26.0	30.0	29.0	30.0	30.0	30.5	29.5
3	---	---	21.0	20.5	26.5	26.0	30.0	29.5	30.0	30.0	30.0	29.5
4	---	---	21.5	21.0	27.5	26.5	30.0	29.5	30.0	30.0	30.0	25.0
5	---	---	21.5	21.0	27.0	26.5	31.0	30.0	30.0	30.0	29.5	29.0
6	---	---	22.5	16.5	27.5	27.0	30.5	30.0	30.0	30.0	29.0	28.5
7	---	---	23.0	22.0	28.0	27.5	30.5	30.0	30.0	30.0	28.5	27.0
8	---	---	23.5	22.5	27.5	27.0	31.5	30.5	30.0	30.0	29.0	28.5
9	---	---	23.5	23.0	27.5	27.0	31.0	30.5	30.0	30.0	29.0	28.5
10	---	---	24.0	23.0	27.5	26.5	31.0	30.0	30.0	30.0	29.0	28.5
11	---	---	23.5	23.0	27.0	26.5	30.5	30.0	30.0	30.0	29.5	28.5
12	16.5	16.0	24.5	23.0	28.0	27.0	31.0	30.0	30.0	30.0	29.0	28.0
13	16.5	16.0	23.5	23.5	28.0	27.5	30.5	30.0	30.0	30.0	28.5	28.0
14	17.0	16.5	24.0	23.5	28.0	27.5	30.5	30.0	30.0	30.0	28.5	27.5
15	17.5	17.0	24.0	23.5	28.0	27.5	31.0	30.0	30.0	30.0	28.0	27.5
16	17.5	17.0	25.0	24.0	28.0	27.5	30.5	30.0	30.0	30.0	27.5	27.5
17	17.5	17.0	25.0	24.0	28.0	27.5	31.0	30.5	30.5	29.5	28.0	27.5
18	18.0	17.5	25.5	24.0	28.5	28.0	30.5	30.5	30.5	29.5	28.0	27.5
19	18.5	18.0	24.5	24.0	28.5	28.0	30.5	30.5	29.5	29.5	28.0	27.5
20	18.0	18.0	27.0	24.5	29.0	28.0	30.5	30.5	29.5	29.5	27.5	27.0
21	18.5	18.0	25.0	24.5	29.0	28.0	30.5	30.5	29.5	29.5	28.0	27.0
22	18.5	18.0	25.5	25.0	29.0	28.5	30.5	30.0	30.0	29.5	27.5	27.0
23	19.0	18.0	26.0	25.0	29.5	28.5	30.0	30.0	30.0	29.5	28.0	27.5
24	19.0	18.5	26.5	25.0	29.5	29.0	30.0	30.0	30.5	29.5	27.5	27.0
25	19.5	19.0	25.5	24.5	29.5	28.5	30.0	30.0	30.5	29.5	27.5	27.0
26	19.5	19.0	25.5	24.5	29.5	29.0	30.0	30.0	30.0	29.5	27.5	26.5
27	19.5	19.0	26.0	25.0	29.5	29.0	30.0	30.0	30.0	29.5	27.0	27.0
28	20.0	19.5	26.0	25.5	29.5	29.0	30.0	30.0	30.0	29.5	27.0	27.0
29	20.0	19.5	26.5	25.5	29.5	29.0	30.0	30.0	30.5	29.5	27.0	26.5
30	21.0	20.0	27.0	26.0	29.5	29.0	30.0	30.0	30.5	29.5	26.5	26.5
31	---	---	26.0	26.0	---	---	30.0	30.0	30.5	29.5	---	---
MONTH	21.0	16.0	27.0	16.5	29.5	21.5	31.5	29.0	30.5	29.5	30.5	25.0

02465005 BLACK WARRIOR RIVER BELOW OLIVER LOCK AND DAM AT TUSCALOOSA, AL
(Formerly published as Black Warrior River at Oliver Lock and Dam at Tuscaloosa)

LOCATION.--Lat 33°12'33", long 87°35'18", in NW¼ sec. 21, T. 21 S., R. 10 W., Tuscaloosa County, Hydrologic Unit 03160112, on downstream side of lock at Tuscaloosa, 0.7 mi (1.1 km) upstream from Mill Creek, 0.7 mi (1.1 km) downstream from Gulf, Mobile & Ohio Railroad bridge, and at mile 126.1 (202.9 km).

DRAINAGE AREA.--4,830 mi^2 (12,510 km^2).

PERIOD OF RECORD.--October 1971 to current year (gage heights only). Unpublished records from August 1939 to September 1971 available in files of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 82.3 ft (25.09 m) above mean sea level (levels by Corps of Engineers). Prior to Apr. 19, 1944, nonrecording gage at same site and datum.

COOPERATION.--Records furnished by U.S. Army Corps of Engineers.

EXTREMES (0700) FOR PERIOD OF RECORD.--Maximum gage height, 66.7 ft (20.33 m) Feb. 22, 1961; minimum, 10.0 ft (3.05 m) many days in October and November 1953, September 1954, and 1955.

EXTREMES (0700) FOR CURRENT YEAR.--Maximum gage height at 0700, 59.3 ft (18.07 m) Apr. 5; minimum, 12.7 ft (3.87 m) Oct. 18.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 0700

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.30	13.10	17.70	16.40	15.20	28.70	38.10	15.00	13.90	13.70	14.00	13.80
2	14.30	13.40	15.00	15.00	15.10	25.00	30.60	14.60	15.00	13.80	14.50	14.00
3	13.30	13.50	14.50	14.00	14.80	22.80	36.40	14.40	14.10	14.30	14.30	13.80
4	13.10	13.50	13.50	15.90	14.20	24.20	48.60	14.20	14.20	13.50	16.60	13.40
5	13.00	13.30	13.50	16.00	15.60	41.30	59.30	15.20	14.10	13.40	14.60	13.40
6	14.10	13.20	13.40	15.80	13.80	43.70	56.80	14.50	13.50	13.80	14.40	13.40
7	14.40	13.20	14.50	16.40	13.60	43.50	52.90	14.60	14.00	14.20	14.00	17.80
8	14.30	13.10	14.10	20.30	15.60	39.20	48.00	14.00	13.40	13.70	13.80	30.90
9	14.70	13.40	15.00	21.20	14.10	33.90	40.00	15.20	13.30	13.80	14.50	20.00
10	13.30	13.30	14.10	43.60	14.30	29.20	35.10	15.00	14.00	13.90	14.50	16.40
11	13.20	13.30	14.60	41.20	14.20	28.20	32.00	14.90	14.30	13.60	14.00	13.80
12	13.00	13.30	13.40	32.40	14.70	25.00	28.00	13.80	13.90	14.00	13.80	14.10
13	13.20	13.50	19.60	26.50	13.20	50.90	28.00	14.30	13.40	13.70	13.90	14.70
14	13.00	13.40	20.80	24.50	13.90	48.80	25.50	13.90	13.80	14.30	13.20	15.20
15	13.20	13.70	17.80	29.30	14.30	47.20	23.70	13.60	14.20	13.90	13.80	15.30
16	12.90	14.00	16.40	27.80	14.40	37.80	21.90	13.60	14.00	13.90	13.40	15.70
17	12.90	14.20	17.00	25.00	14.40	34.60	21.20	14.10	14.30	13.50	13.60	15.50
18	12.70	14.20	15.20	23.00	13.80	27.80	22.00	15.50	14.80	13.40	13.80	15.50
19	13.20	13.90	14.40	21.90	14.00	25.00	17.70	14.20	14.20	14.10	13.70	13.80
20	13.50	13.60	13.80	21.20	13.90	24.60	17.60	13.40	13.90	13.90	13.80	15.40
21	13.40	13.50	20.00	21.20	13.50	23.20	17.70	13.80	13.90	13.80	13.30	15.00
22	13.60	13.50	21.30	20.70	14.30	30.40	18.00	13.80	15.00	13.70	13.30	14.60
23	13.60	14.10	16.80	17.60	14.00	32.80	17.50	13.60	14.00	13.80	13.80	14.30
24	13.10	13.80	16.00	18.00	25.30	28.50	21.00	14.20	13.90	13.60	13.80	14.30
25	13.00	13.60	15.40	22.50	33.60	25.00	18.70	14.20	14.40	13.80	14.00	14.40
26	13.50	13.80	21.30	24.00	28.80	24.40	17.00	14.30	14.00	14.80	14.80	16.60
27	13.80	13.60	23.50	22.20	27.30	22.40	15.30	14.20	13.60	14.90	15.20	20.00
28	13.50	13.40	23.30	21.60	32.00	21.60	14.80	14.30	13.90	14.90	15.40	16.70
29	13.80	14.60	17.00	18.50	---	22.80	14.90	14.10	14.10	18.40	13.40	16.70
30	14.20	16.70	16.70	17.10	---	36.60	15.00	14.00	14.60	16.60	13.60	19.00
31	13.40	---	15.80	16.50	---	39.40	---	14.20	---	15.40	14.00	---
MEAN	13.50	13.69	16.63	22.17	17.00	31.89	28.44	14.28	14.06	14.20	14.09	15.92
MAX	14.70	16.70	23.50	43.60	33.60	50.90	59.30	15.50	15.00	18.40	16.60	30.90
MIN	12.70	13.10	13.40	14.00	13.20	21.60	14.80	13.40	13.30	13.40	13.20	13.40

02465493 ELLIOTTS CREEK AT MOUNDVILLE, AL

LOCATION.--Lat 32°59'50", long 87°37'20", in W½ sec. 6, T. 23 N., R. 5 E., Hale County, Hydrologic Unit 03160113, on downstream side of State route 69 highway bridge, 2.5 mi (4.0 km) above Southern Railroad, 6.6 mi (10.6 km) upstream from mouth.

DRAINAGE AREA.--31.2 mi^2 (80.8 km^2).

PERIOD OF RECORD.--October 1976 to September 1977.

GAGE.--Water-stage recorder. Datum of gage is 147.81 ft (45.052 m) above mean sea level.

REMARKS.--Records poor prior to November 12, 1976 and good thereafter. Records of specific conductance and water temperature for the water year 1977 are published under miscellaneous water-quality sites in this report.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 450 ft^3/s (12.7 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 12	1115	456	12.9	6.22	1.896	Mar. 29	1915	748	21.2	6.47	1.972
Mar. 21	1615	*995	28.2	*6.58	2.006						

Minimum discharge, 14 ft^3/s (0.40 m^3/s) July 8, gage height, 2.00 ft (0.610 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	32	31	32	35	75	246	30	22	16	26	15
2	23	27	29	30	34	59	246	29	21	15	24	15
3	22	25	28	43	34	53	219	30	19	15	31	15
4	21	24	27	47	34	169	272	38	19	15	30	16
5	22	24	27	37	34	191	348	42	18	15	27	20
6	40	24	28	36	31	290	217	33	18	15	24	71
7	40	24	40	46	29	253	145	29	18	15	22	257
8	33	24	37	40	29	128	117	28	17	15	20	159
9	27	25	29	192	29	93	99	62	17	17	19	42
10	25	27	28	227	28	79	85	50	17	25	18	30
11	24	32	36	108	28	73	72	30	17	32	18	26
12	22	28	60	63	37	262	65	27	16	34	18	23
13	22	27	63	54	51	287	59	26	18	24	18	24
14	22	39	43	83	41	138	55	25	19	25	17	33
15	22	58	43	87	32	97	50	25	18	42	16	30
16	24	41	39	57	29	81	46	24	17	24	16	47
17	27	30	32	46	28	69	43	23	18	30	20	40
18	23	28	29	43	28	62	40	23	19	33	23	29
19	24	27	28	43	28	57	39	23	19	29	20	45
20	27	29	48	43	27	53	38	22	19	25	19	32
21	26	31	52	43	26	332	37	22	19	22	19	29
22	25	29	34	40	27	503	61	22	18	20	18	24
23	24	27	30	38	42	214	89	22	16	19	18	22
24	27	26	29	67	179	133	62	23	16	20	17	21
25	80	27	91	69	163	103	48	25	16	28	17	22
26	82	28	123	47	70	85	39	24	16	37	19	22
27	45	31	64	41	141	73	35	23	16	83	20	23
28	28	47	42	42	141	93	34	23	16	95	18	23
29	28	66	36	38	---	292	32	24	16	65	16	32
30	40	42	33	34	---	429	31	23	16	56	16	37
31	42	---	34	35	---	418	---	21	---	31	16	---
TOTAL	961	949	1293	1851	1435	5244	2969	871	531	937	620	1224
MEAN	31.0	31.6	41.7	59.7	51.3	169	99.0	28.1	17.7	30.2	20.0	40.8
MAX	82	66	123	227	179	503	348	62	22	95	31	257
MIN	21	24	27	30	26	53	31	21	16	15	16	15
CFSM	.99	1.01	1.34	1.91	1.64	5.42	3.17	.90	.57	.97	.64	1.31
IN.	1.15	1.13	1.54	2.21	1.71	6.25	3.54	1.04	.63	1.12	.74	1.46

WTR YR 1977 TOTAL 18885 MEAN 51.7 MAX 503 MIN 15 CFSM 1.66 IN 22.52

02466030 BLACK WARRIOR RIVER AT WARRIOR LOCK AND DAM, NEAR EUTAW, AL

LOCATION.--Lat 32°46'46", long 87°50'37", in SW¼ sec. 24, T. 21 N., R. 2 E., Hale County, Hydrologic Unit 03160113, on left bank at dam, 0.4 mi (0.6 km) upstream from Jenny Watson Creek, 5.0 mi (8.0 km) southeast of Eutaw, and at mile 49.6 (79.8 km).

DRAINAGE AREA.--5,800 mi^2 (15,022 km^2).

PERIOD OF RECORD.--October 1976 to September 1977.

GAGE.--Water-stage recorder. Datum of gage is 50.00 ft (15.240 m) above mean sea level (levels by Corps of Engineers).

REMARKS.--Records good. Some regulation by Lewis Smith Reservoir on Sipsey Fork (station 02451950), by Bankhead lock and dam on Black Warrior River, usable capacity, 112,000 acre-ft (138 hm^3), Holt lock and dam on Black Warrior River, usable capacity, 115,000 acre-ft (142 hm^3), and lock and dam at gage.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 88,900 ft^3/s (2,520 m^3/s) Apr. 7, 8; maximum gage height, 54.90 ft (16.734 m) Apr. 8; minimum daily discharge, 486 ft^3/s (13.8 m^3/s) Oct. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2840	786	9910	6070	7990	30600	46600	4580	1900	1480	4210	1630
2	3060	1700	6350	2650	7660	23000	54900	4010	3440	1130	6990	1450
3	1890	2000	5120	2840	4910	17200	41500	4810	2540	2490	4160	1810
4	1360	1590	1340	6100	4650	22800	42900	2560	3290	1150	9040	1190
5	1040	1680	1420	6280	7730	40700	51800	4500	2570	1180	7080	1110
6	1480	1640	1850	6910	2700	46900	67500	5010	1630	1020	5980	1680
7	4490	1630	3900	7740	3210	48100	88900	4030	1590	2600	5960	12400
8	3110	1640	2390	8200	7580	49000	88900	2730	1660	2160	1960	20100
9	5630	1620	7870	13400	3590	45000	78900	4360	4840	2250	3600	12100
10	1800	1690	3890	44000	4210	41000	68500	4460	1260	2200	3750	5630
11	1320	1650	5000	53900	3570	29600	49200	4210	2800	2190	2890	2060
12	1250	1680	2490	52200	6270	31100	38300	2410	2510	3130	1900	1990
13	1380	1760	11700	27600	1250	43900	31800	3330	1460	2650	2670	4370
14	1350	1660	13300	21300	4190	51400	22800	2140	1760	4320	1830	5030
15	1330	1850	11500	23000	5430	55600	17900	1100	2710	2710	1390	5750
16	1410	4050	8140	25100	5570	55700	15900	1140	2020	2870	1070	6400
17	921	3500	6830	19700	4250	47600	13600	2790	3010	1980	1520	6450
18	496	2980	5720	17600	1820	43700	13800	5230	3120	1470	1540	6060
19	486	2890	4490	14600	2180	26600	10200	3290	3420	3440	2090	2270
20	578	2750	4120	14100	2910	21500	10900	975	2940	3210	1980	4710
21	950	1470	13300	14200	3540	23100	11200	1410	2690	2150	1660	3970
22	3200	1070	14300	12500	5130	32700	11100	2230	4820	1430	963	2540
23	2680	3990	10300	10100	3860	36700	11000	1440	2180	2520	1250	2570
24	1590	2020	8870	11400	19400	32600	12500	3240	1990	1300	2060	2780
25	1010	1150	7850	14100	36200	24800	11500	2910	4060	2180	2920	1450
26	1020	1250	14800	18200	37300	20300	8830	2570	2530	5180	4260	3850
27	1990	2290	19000	15800	29200	16700	6930	2340	1120	4560	5760	9760
28	2010	1110	16500	13300	30900	15400	5860	3760	1670	5350	5340	4510
29	2410	5620	11400	11700	---	21500	6960	2490	1990	10400	1180	8290
30	3060	9500	9910	7820	---	37200	5240	2150	3050	11000	1270	9250
31	2490	---	8970	7740	---	41800	---	2870	---	7850	2780	---
TOTAL	59631	70216	252530	510150	257200	1073800	945920	95075	76570	99550	101053	153160
MEAN	1924	2341	8146	16460	9186	34640	31530	3067	2552	3211	3260	5105
MAX	5630	9500	19000	53900	37300	55700	88900	5230	4840	11000	9040	20100
MIN	486	786	1340	2650	1250	15400	5240	975	1120	1020	963	1110
CFSM	.33	.40	1.40	2.84	1.58	5.97	5.44	.53	.44	.55	.56	.88
IN.	.38	.45	1.62	3.27	1.65	6.89	6.07	.61	.49	.64	.65	.98

WTR YR 1977 TOTAL 3694855 MEAN 10120 MAX 88900 MIN 486 CFSM 1.75 IN 23.70

02466040 BLACK WARRIOR RIVER BELOW WARRIOR LOCK AND DAM NEAR EUTAW, AL
(formerly published as Black Warrior River at Warrior Lock near Sawyerville, AL)

LOCATION.--Lat 32°46'10", long 87°49'40", in N½ sec. 30, T. 21 N., R. 3 E., Hale County, Hydrologic Unit 03160112, on downstream side of lock, 1.4 mi (2.2 km) upstream from Presley Ford Branch, 6 mi (9.7 km) west of Sawyerville, and at mile 43.8 (70.5 km).

DRAINAGE AREA.--5,820 mi^2 (15,074 km^2).

PERIOD OF RECORD.--October 1971 to current year (gage heights only). Unpublished records from October 1957 to September 1971 available in files of Corps of Engineers.

GAGE.--Nonrecording gage. Datum of gage is 59.76 ft (18.215 m) above mean sea level (levels by the Corps of Engineers).

COOPERATION.--Records furnished by U.S. Corps of Engineers.

EXTREMES (0700) FOR PERIOD OF RECORD.--Maximum gage height, 50.1 ft (15.27 m) Feb. 25, 1961; minimum, 13.3 ft (4.05 m) Aug. 10, 1960.

EXTREMES (0700) FOR CURRENT YEAR.--Maximum gage height, 41.9 ft (12.77 m) Apr. 9; minimum, 14.0 ft (4.27 m) Oct. 6, 18, 19, Sept. 3-6.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 0700

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.80	14.20	16.80	17.00	16.60	25.50	32.50	15.60	14.80	14.60	15.10	14.30
2	14.40	14.50	16.90	15.90	15.90	24.20	33.50	15.50	15.30	14.50	15.10	14.20
3	14.40	14.80	16.00	16.00	15.70	21.80	31.90	15.50	14.90	14.50	15.10	14.00
4	14.20	14.50	15.10	16.30	15.70	21.50	31.40	15.30	14.90	14.40	15.10	14.00
5	14.10	14.50	15.00	16.30	16.20	26.10	34.20	15.50	14.90	14.50	15.50	14.00
6	14.00	14.50	14.80	16.40	15.20	31.40	36.40	15.40	14.70	14.40	14.90	14.00
7	15.10	14.40	15.00	16.40	15.40	33.50	39.20	15.40	14.60	14.40	14.90	14.80
8	14.80	14.30	14.90	16.90	16.40	34.50	41.40	15.30	14.60	14.30	14.60	17.90
9	14.80	14.30	15.20	18.90	15.40	34.90	41.90	15.30	14.40	14.40	14.70	20.80
10	14.80	14.40	15.40	23.60	15.30	33.90	40.90	15.40	14.40	14.30	14.70	17.60
11	14.30	14.20	15.30	28.90	15.20	30.00	39.30	15.30	14.30	14.30	14.80	15.70
12	14.30	14.40	14.90	30.90	15.80	26.40	36.90	15.20	14.30	14.50	14.40	15.00
13	14.10	14.40	15.90	29.60	15.20	30.90	33.90	14.80	14.30	14.50	14.40	15.20
14	14.20	14.30	17.40	24.80	15.00	34.00	28.20	15.20	14.30	15.00	14.30	15.60
15	14.20	14.30	18.40	23.00	16.10	35.90	25.00	14.40	14.70	14.60	14.20	15.50
16	14.30	14.80	17.40	24.30	15.80	36.90	22.30	14.40	14.40	14.30	14.20	15.80
17	14.30	14.50	17.00	23.40	15.40	36.90	20.00	14.40	14.80	14.60	14.20	16.30
18	14.00	14.50	16.70	22.00	15.20	35.50	18.60	14.70	14.40	14.40	14.30	16.20
19	14.00	14.70	15.90	21.00	14.90	31.30	17.70	15.20	14.80	14.60	14.40	14.90
20	14.10	14.70	15.50	20.40	14.90	26.60	16.90	14.40	14.60	14.70	14.20	15.90
21	14.10	14.50	16.60	19.40	14.80	23.60	17.10	14.40	14.70	14.50	14.20	15.50
22	14.40	14.40	17.30	18.90	15.10	27.20	17.00	14.30	14.90	14.30	14.20	15.20
23	14.80	14.60	17.70	18.40	15.30	28.50	17.60	14.40	14.60	14.60	14.20	14.90
24	14.20	14.80	17.10	17.60	18.40	28.30	18.00	14.90	14.60	14.30	14.30	14.70
25	14.20	14.30	16.50	18.00	24.40	25.70	19.00	14.80	14.90	14.30	14.30	14.60
26	14.30	14.30	18.30	19.70	27.20	22.30	18.30	14.80	14.70	15.00	14.90	14.50
27	14.20	14.50	20.00	20.20	26.10	20.80	17.30	14.70	14.30	15.00	15.10	15.60
28	14.40	14.30	20.20	19.20	25.50	19.90	16.40	14.80	14.30	15.10	15.30	16.90
29	14.40	14.50	20.30	19.10	---	19.50	16.20	14.70	14.30	15.50	14.30	16.30
30	14.60	14.80	17.70	17.20	---	25.50	15.80	14.60	14.70	16.90	14.20	16.10
31	15.00	---	17.60	16.60	---	30.50	---	14.80	---	16.10	14.30	---
MEAN	14.38	14.47	16.74	20.20	17.08	28.50	26.49	14.95	14.61	14.69	14.59	15.53
MAX	15.10	14.80	20.30	30.90	27.20	36.90	41.90	15.60	15.30	16.90	15.50	20.80
MIN	14.00	14.20	14.80	15.90	14.80	19.50	15.80	14.30	14.30	14.30	14.20	14.00

02467000 TOMBIGBEE RIVER AT DEMOPOLIS LOCK AND DAM, NEAR COATOPA, AL

LOCATION.--Lat 32°31'15", long 87°52'39", in NW¼ sec. 22, T. 18 N., R. 2 E., Marengo County, Hydrologic Unit 03160201, on left bank 100 ft (30 m) upstream from lock and dam, 0.5 mi (0.8 km) downstream from Foscue Creek, 2.5 mi (4.0 km) west of Demopolis, 3.5 mi (5.6 km) upstream from Hall Creek, 13 mi (21 km) east of Coatopa, and at mile 171.2 (275.5 km).

DRAINAGE AREA.--15,400 mi^2 (39,900 km^2), approximately.

PERIOD OF RECORD.--August 1928 to current year. Published as "near Coatopa" 1928-55.

REVISED RECORDS.--WSP 782: 1934. WSP 952: 1941.

GAGE.--Water-stage recorder. Datum of gage is 56.00 ft (17.069 m) above mean sea level (levels by Corps of Engineers). Prior to Oct. 31, 1939, nonrecording gage, and Nov. 1, 1939 to Sept. 30, 1955, water-stage recorder at site 11.6 mi (18.7 km) downstream at datum 26.70 ft (8.138 m) lower.

REMARKS.--Records fair except those below 2,000 ft^3/s (56.6 m^3/s) which are poor. Some regulation by Lewis Smith Reservoir on Sipsey Fork (station 02451950), Bankhead lock and dam on Black Warrior River, usable capacity, 112,000 acre-ft (138 hm^3), Holt lock and dam on Black Warrior River, usable capacity, 115,000 acre-ft (142 hm^3), and lock at gage. Diversion through lock valves included in figures of discharge.

AVERAGE DISCHARGE.--49 years, 22,770 ft^3/s (644.7 m^3/s), 20.08 in/yr (510 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 250,000 ft^3/s (7,080 m^3/s) Feb. 28, 1961, gage height, 35.66 ft (10.869 m); minimum daily, 50 ft^3/s (1.42 m^3/s) Aug. 1-6, 1954 (results of closure of and storage above Demopolis lock and dam during construction).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 178,000 ft^3/s (5,040 m^3/s) Apr. 10; maximum gage height, 27.77 ft (8.464 m) Apr. 11; minimum daily discharge, 1,550 ft^3/s (43.9 m^3/s) Sept. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5300	4840	21300	22400	18500	65600	79300	12100	5620	4290	9340	2420
2	4310	5860	20300	17200	16000	63400	84400	11300	5980	3390	8690	1900
3	4140	7600	16200	16100	14300	55800	80400	10300	6340	3800	9310	2170
4	3200	6350	10700	18300	13100	61400	83300	9840	6750	2980	9260	1830
5	2690	5680	7960	18500	14000	76400	98900	9270	6010	2240	10400	1550
6	2520	4910	6780	19100	11300	93400	111000	11100	4340	2130	7200	1890
7	4400	4520	8440	21200	10000	104000	122000	11800	4100	2920	6450	9610
8	4720	4100	7090	24600	12400	108000	143000	10800	3310	3120	4370	23500
9	6080	3800	9900	38400	11100	112000	166000	11000	2820	3310	4540	30600
10	5700	3780	10200	65600	9630	114000	178000	11100	2570	3110	4150	22200
11	3930	3640	10500	78900	9310	111000	175000	11200	3190	3160	4860	12900
12	3460	3730	9060	84200	11000	110000	160000	10100	3910	4080	3370	7420
13	3160	3710	18400	83300	11200	122000	128000	7900	3140	4580	3390	7790
14	3130	4040	28600	76600	10500	135000	125000	7520	2800	5960	2860	8610
15	2730	4150	31600	72100	13100	147000	90500	5040	3800	5380	2340	9030
16	2830	5730	26700	70400	12700	151000	60500	4460	2980	4550	1770	11800
17	2450	6130	22800	67400	11700	154000	35900	4760	3840	4450	1810	13100
18	1850	5890	19900	66700	10000	151000	26400	6500	3710	3260	2610	12400
19	1720	5650	15000	62100	6610	142000	22800	7230	4700	4150	2960	7980
20	1740	5630	12200	53900	8570	112000	18500	4430	4330	4860	2650	8500
21	1790	4620	16000	42400	7160	94600	18300	3500	4450	4490	2730	8580
22	2970	3570	22500	32600	9570	97000	20600	4110	5450	3260	2320	7140
23	4250	4760	25300	27200	10600	90900	33400	3960	5080	3540	2220	6590
24	3390	5290	21600	25300	37900	75200	42300	5060	4340	2840	2830	5930
25	2740	3920	20700	29700	56000	57700	44900	5610	5760	2910	3110	5270
26	2570	3500	29800	36900	63100	43000	39200	5200	5160	5460	4000	4490
27	3090	4260	40100	38600	65400	34500	29100	5300	3390	6760	5170	10800
28	4710	4410	43100	34200	64800	31000	20900	5970	3070	8250	5810	14700
29	5960	7000	39700	30600	---	39400	17800	5610	3290	12400	3450	13600
30	6550	15400	32900	23500	---	65700	15400	5300	4500	16900	1970	17200
31	6840	---	28000	19900	---	75800	---	5860	---	12700	2730	---
TOTAL	114920	156470	633330	1317900	549550	2893800	2270800	233230	128730	155230	138670	291500
MEAN	3707	5216	20430	42510	19630	93350	75690	7524	4291	5007	4473	9717
MAX	6840	15400	43100	84200	65400	154000	178000	12100	6750	16900	10400	30600
MIN	1720	3500	6780	16100	6610	31000	15400	3500	2570	2130	1770	1550
CFSM	.24	.34	1.33	2.76	1.28	6.06	4.92	.49	.28	.33	.29	.63
IN.	.28	.38	1.53	3.18	1.33	6.99	5.49	.56	.31	.37	.33	.70

CAL YR 1976 TOTAL 9825340 MEAN 26850 MAX 166000 MIN 1720 CFSM 1.74 IN 23.73
WTR YR 1977 TOTAL 8884130 MEAN 24340 MAX 178000 MIN 1550 CFSM 1.58 IN 21.46

02467001 TOMBIGBEE RIVER BELOW DEMOPOLIS LOCK AND DAM, NEAR COATOPA, AL

LOCATION.--Lat 32°31'15", long 87°52'48", in NW¼ sec. 22, T. 18 N., R. 2 E., Marengo County, Hydrologic Unit 03160201, on left bank at downstream end of lock and dam, 0.6 mi (1.0 km) downstream from Foscue Creek, 2.5 mi (4.0 km) west of Demopolis, 3.4 mi (5.5 km) upstream from Hall Creek, 13 mi (21 km) east of Coatopa, and at mile 171.1 (275.3 km).

DRAINAGE AREA.--15,400 mi^2 (39,900 km^2), approximately.

PERIOD OF RECORD.--July 1951 to current year (gage heights only). October 1971 to current year in reports of Geological Survey. July 1951 to September 1971 in files of Corps of Engineers.

GAGE.--Nonrecording gage. Datum of gage is 20.00 ft (6.096 m) above mean sea level.

COOPERATION.--Records furnished by Corps of Engineers.

EXTREMES (AT 0700) FOR PERIOD OF RECORD.--Maximum gage height, 71.0 ft (21.64 m) Feb. 28, 1961; minimum, 11.0 ft (3.35 m) May 30, 1962.

EXTREMES (AT 0700) FOR CURRENT YEAR.--Maximum gage height, 62.0 ft (18.90 m) Apr. 11; minimum, 12.6 ft (3.84 m) Oct. 20, 21.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 0700

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.20	13.60	20.00	22.90	20.30	41.60	47.60	18.20	14.30	14.00	17.00	13.00
2	13.40	13.80	21.10	20.70	19.60	41.20	50.10	17.40	13.80	13.50	15.60	13.00
3	13.50	14.80	19.10	19.20	19.10	39.20	50.10	16.70	14.60	13.00	16.50	13.00
4	13.20	14.30	17.50	19.70	18.10	38.00	49.80	16.80	14.40	13.00	15.50	12.90
5	12.80	14.20	15.50	20.60	17.90	43.90	52.20	16.50	14.50	13.10	16.80	12.80
6	12.90	13.60	14.30	20.40	18.20	49.30	55.30	16.40	14.20	12.80	15.60	12.80
7	13.40	13.60	14.80	20.80	16.70	53.30	57.40	17.50	13.40	12.90	14.80	14.00
8	13.50	13.30	15.20	22.30	16.30	55.00	59.10	17.30	13.50	13.20	14.30	19.60
9	13.50	13.30	14.70	24.30	17.60	55.30	60.40	16.80	13.20	13.60	13.30	25.20
10	14.20	13.30	16.70	36.30	16.20	57.00	61.60	16.90	13.10	13.30	14.00	23.60
11	13.20	13.20	15.60	43.20	16.10	57.20	62.00	16.60	13.10	13.30	14.00	19.90
12	13.10	13.20	16.00	46.50	15.80	56.70	61.90	17.00	13.40	13.40	13.60	15.90
13	13.10	13.00	17.30	47.70	17.70	58.00	61.00	15.70	13.30	13.80	13.10	14.70
14	13.10	13.40	22.70	47.10	16.60	59.10	59.60	15.50	13.00	14.00	13.20	15.10
15	13.10	13.60	25.20	46.30	17.50	59.50	56.90	14.30	13.30	14.10	13.00	15.60
16	13.00	13.40	24.50	45.60	17.60	59.90	52.00	14.70	13.10	13.70	12.90	16.10
17	13.00	14.20	22.70	44.40	17.40	60.30	44.50	13.50	13.10	13.70	13.00	17.30
18	12.70	14.00	21.20	41.70	17.00	60.30	36.60	14.00	13.40	13.40	13.00	17.20
19	12.70	14.00	19.40	39.20	15.30	59.70	30.40	14.70	13.60	13.20	13.40	16.40
20	12.60	13.90	17.70	36.00	15.40	58.50	23.90	14.20	13.70	13.70	13.10	14.70
21	12.60	13.90	17.00	32.00	15.40	56.00	20.80	13.30	13.50	13.80	13.10	15.40
22	12.70	13.20	20.20	28.80	15.40	55.00	20.40	13.40	13.70	13.50	13.20	15.00
23	13.60	13.30	22.50	25.00	16.40	54.50	24.60	13.40	14.40	13.20	12.90	14.50
24	13.30	14.10	21.90	23.10	23.90	52.40	30.20	13.50	13.70	13.20	13.00	14.20
25	13.10	13.30	20.60	24.10	35.10	47.90	32.60	13.80	13.80	12.90	13.10	14.10
26	13.00	13.20	23.50	27.20	39.60	42.20	32.10	13.70	14.20	13.50	13.50	13.50
27	13.00	13.30	28.20	29.30	40.80	36.50	28.90	13.80	13.50	14.70	13.80	14.80
28	13.50	13.60	30.70	28.30	41.60	31.00	24.50	14.00	13.10	14.70	14.00	18.30
29	13.90	13.80	30.40	26.30	---	28.50	21.20	14.20	13.40	16.40	13.90	17.00
30	14.40	16.80	27.80	24.50	---	36.80	20.00	13.90	13.40	19.40	12.90	18.60
31	14.60	---	25.40	21.70	---	45.00	---	14.10	---	18.00	13.00	---
MEAN	13.29	13.74	20.63	30.81	20.52	49.96	42.92	15.22	13.62	13.94	13.94	15.94
MAX	14.60	16.80	30.70	47.70	41.60	60.30	62.00	18.20	14.60	19.40	17.00	25.20
MIN	12.60	13.00	14.30	19.20	15.30	28.50	20.00	13.30	13.00	12.80	12.90	12.80

02467500 SUCARNOOCHEE RIVER AT LIVINGSTON, AL

LOCATION.--Lat 32°34'25", long 88°11'36", in SW¼ sec. 33, T. 19 N., R. 2 W., Sumter County, Hydrologic Unit 03160202, on right bank 10 ft (3 m) downstream from bridge on U.S. Highway 11, 500 ft (152 m) upstream from Southern Railway bridge, 0.8 mi (1.3 km) southwest of Livingston, and 9 mi (14 km) upstream from Alamuchee Creek.

DRAINAGE AREA.--606 mi^2 (1,570 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1938 to current year.

REVISED RECORDS.--WSP 1384: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 90.04 ft (27.444 m) above mean sea level. Prior to Jan. 12, 1939, nonrecording gage at same site and datum.

REMARKS.--Water-discharge record good except for period of no gage-height record, Dec. 14 to March 8, which is poor.

AVERAGE DISCHARGE.--39 years, 788 ft^3/s (22.32 m^3/s), 17.66 in/yr (449 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 31,500 ft^3/s (892 m^3/s) Feb. 22, 1961, gage height, 29.35 ft (7.434 m); minimum, 49 ft^3/s (1.39 m^3/s) Sept. 11, 1957.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,000 ft^3/s (142 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Dec. 27		unknown		unknown		Mar. 7	1900	7860	223	23.10	7.041
Jan. 11		*unknown		*unknown		Mar. 23	0300	5630	159	21.21	6.465
Feb. 25		unknown		unknown		Apr. 4	0600	8250	234	23.27	7.093

Minimum discharge, 131 ft^3/s (3.71 m^3/s) July 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	150	195	503	800	900	6000	5590	519	249	146	902	155
2	155	217	324	700	800	5000	7680	480	391	144	684	150
3	146	178	252	1000	700	5500	6440	514	364	140	1120	145
4	137	158	227	1500	900	4000	5940	1820	251	139	674	141
5	132	149	214	1400	1200	5000	6780	2150	207	143	479	139
6	135	145	203	2000	1100	6500	6240	1520	190	138	442	148
7	152	142	207	3000	900	7400	6530	874	184	134	302	604
8	198	142	235	5000	700	7260	6680	562	173	132	244	1450
9	187	145	324	7000	600	6200	5260	470	174	136	215	1660
10	164	146	273	9000	500	5180	3460	411	166	258	194	1500
11	153	147	248	10000	550	3560	1560	373	165	290	178	684
12	146	150	273	9000	450	3270	921	339	165	324	170	544
13	140	162	470	7000	600	3360	779	314	161	329	167	390
14	136	202	1100	6000	800	3330	691	296	166	311	161	322
15	134	215	2000	8000	1000	3230	627	282	263	249	156	347
16	134	364	2500	7800	900	3050	570	271	198	199	152	413
17	136	340	2400	5400	800	2050	519	260	186	177	163	453
18	136	243	1600	4000	700	1020	479	251	185	169	167	378
19	140	202	1000	2800	600	823	444	239	175	165	179	319
20	141	193	600	2000	550	742	433	231	191	176	191	276
21	133	194	800	1200	500	1820	428	223	293	459	179	288
22	134	249	700	900	470	4360	861	217	314	342	168	305
23	140	264	600	820	700	5530	2170	210	227	224	156	258
24	136	222	560	740	2500	5280	2700	210	186	332	153	231
25	136	192	1500	3000	5000	5040	3090	209	169	439	153	212
26	136	184	3500	3500	4500	3890	3460	210	158	268	200	222
27	158	183	5000	3000	3500	1960	2670	209	151	243	223	213
28	181	209	4900	1800	4500	1160	978	210	147	310	214	234
29	160	264	4000	1400	---	2510	640	230	145	327	192	270
30	149	505	2000	1200	---	3410	579	226	142	349	175	283
31	148	---	1100	1000	---	3940	---	228	---	523	163	---
TOTAL	4563	6301	39613	111960	36920	121375	85199	14558	6136	7715	8916	12734
MEAN	147	210	1278	3612	1319	3915	2840	470	205	249	288	424
MAX	198	505	5000	10000	5000	7400	7680	2150	391	523	1120	1660
MIN	132	142	203	700	450	742	428	209	142	132	152	139
CFSM	.24	.35	2.11	5.96	2.18	6.46	4.69	.78	.34	.41	.48	.70
IN.	.28	.39	2.43	6.87	2.27	7.45	5.23	.89	.38	.47	.55	.78

CAL YR 1976 TOTAL 334262 MEAN 913 MAX 11200 MIN 113 CFSM 1.51 IN 20.52
WTR YR 1977 TOTAL 455990 MEAN 1249 MAX 10000 MIN 132 CFSM 2.06 IN 27.99

02467500 SUCARNOOCHEE RIVER AT LIVINGSTON, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1972 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water years 1967 and 1968.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
MAR											
29...	2000	102	7.8	16.5	9.7	44	11	15	1.4	4.8	.3
SEP											
07...	700	--	7.7	24.5	6.5	56	3	20	1.4	3.4	.2

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)
MAR											
29...	1.3	41	0	11	3.8	.1	11	70	378	.25	1.1
SEP											
07...	1.6	65	0	5.4	3.6	.1	4.5	75	142	.54	2.4

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
MAR											
29...	1	1	1	--	1	260	2	53	<.2	90	30
SEP											
07...	ND	1	<1	<1	--	120	3	16	<.2	170	20

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT			
06...	135	59	20.5
NOV			
16...	394	41	8.0
DEC			
13...	553	71	7.0
JAN			
24...	769	118	4.5
MAR			
07...	8310	51	11.0

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
APR			
18...	481	73	18.5
MAY			
31...	229	65	26.0
JUL			
11...	287	68	27.0
AUG			
23...	152	64	27.0

02468500 CHICKASAW BOGUE NEAR LINDEN, AL

LOCATION.--Lat 32°19'45", long 87°47'27", in SW¼ sec. 28, T. 16 N., R. 3 E., Marengo County, Hydrologic Unit 03160201, near left bank on downstream side of bridge on U.S. Highway 43, 1.5 mi (2.4 km) north of Linden, 2 mi (3 km) downstream from Atkin Creek, and 11 mi (18 km) upstream from mouth.

DRAINAGE AREA.--258 mi^2 (668 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1944 to September 1946, October 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 63.45 ft (19.343 m) above mean sea level. January 1944 to September 1946 nonrecording gage at site about 75 ft (23 m) upstream at different datum. Since Jan. 10, 1966, auxiliary nonrecording gage on bridge of Alabama State Highway 28, 3 mi (5 km) downstream. January 1944 to September 1946, auxiliary nonrecording gage at lock 3 on Tombigbee River 3 mi (5 km) downstream from mouth of Chickasaw Bogue.

REMARKS.--Water-discharge record fair.

AVERAGE DISCHARGE.--14 years (water years 1945-46, 1966-77), 358 ft^3/s (10.14 m^3/s), 18.85 in/yr (479 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 33,000 ft^3/s (935 m^3/s) Mar. 26, 1945, gage height, 30.33 ft (9.245 m), site and datum then in use; minimum observed, 0.3 ft^3/s (0.085 m^3/s) June 27-29, 1944.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 6,200 ft^3/s (176 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 10	1300	10300	292	21.56	6.571	Mar. 5	0100	12400	351	22.95	6.995
Jan. 14	2400	6920	196	18.65	5.285	Mar. 13	0300	*20400	578	*26.51	8.080
Feb. 24	1900	13900	394	23.71	7.227	Mar. 31	0400	15300	433	24.40	7.437

Minimum daily discharge, 2.2 ft^3/s (0.062 m^3/s) Sept. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	4.9	88	61	79	338	4520	29	7.7	4.0	19	2.5
2	3.8	4.5	58	51	85	188	3520	28	7.5	4.0	13	2.4
3	3.6	4.2	45	1030	93	115	869	27	7.3	3.8	9.7	2.4
4	4.2	4.1	38	1290	372	6610	588	25	7.0	3.7	19	2.5
5	4.0	4.0	34	404	270	7280	4350	25	6.8	3.7	71	2.4
6	3.8	3.8	32	214	122	3220	765	25	6.4	3.6	20	9.0
7	3.7	4.0	135	1420	75	1340	238	23	6.2	3.4	12	13
8	3.8	3.7	194	444	59	507	149	22	5.8	3.7	8.6	8.8
9	3.8	4.0	74	2020	50	279	126	21	5.6	5.4	7.0	4.9
10	3.7	4.1	46	8910	47	195	179	21	5.4	7.5	76	22
11	3.6	4.4	106	1410	43	183	275	20	5.2	5.3	18	10
12	3.6	6.4	2050	386	43	7390	312	19	5.0	4.5	10	4.5
13	3.6	6.2	2060	265	149	15200	265	18	4.9	4.2	6.8	3.5
14	3.5	14	516	3280	108	2450	158	17	6.6	4.0	6.2	3.5
15	3.5	69	306	3210	65	697	65	17	5.4	4.5	17	5.1
16	3.5	63	252	575	48	584	48	15	5.0	5.8	7.5	6.8
17	3.7	31	130	275	40	489	42	13	4.7	4.5	4.9	5.1
18	3.5	24	82	181	37	425	41	12	4.5	4.4	4.9	4.0
19	3.3	22	62	138	36	366	38	11	5.0	4.5	51	3.5
20	3.5	24	56	126	33	308	36	10	4.5	4.4	30	11
21	3.3	28	69	133	31	321	34	9.4	4.8	4.4	11	7.0
22	3.3	31	55	116	29	763	470	8.6	4.5	4.4	6.4	4.0
23	3.3	26	47	100	306	358	1640	8.2	4.3	4.5	4.7	3.1
24	3.3	22	45	398	10600	220	235	7.7	4.8	7.7	4.1	2.6
25	4.9	21	575	496	5640	177	113	7.7	4.7	7.7	3.7	2.5
26	4.9	22	3140	198	466	156	86	7.9	7.8	10	3.6	2.6
27	4.2	23	550	138	2820	141	68	7.9	5.6	7.7	3.5	4.1
28	4.0	721	214	125	1310	266	54	9.5	4.5	10	3.2	4.0
29	3.8	1160	123	91	---	1160	42	9.9	6.3	65	3.0	3.3
30	5.6	226	83	66	---	6290	36	9.0	4.5	33	2.7	9.0
31	6.4	---	69	65	---	11600	---	7.9	---	25	2.6	---
TOTAL	120.7	2585.3	11334	27616	23056	69616	19362	491.7	168.3	268.3	460.1	169.1
MEAN	3.89	86.2	366	891	823	2246	645	15.9	5.61	8.65	14.8	5.64
MAX	6.4	1160	3140	8910	10600	15200	4520	29	7.8	65	76	22
MIN	3.3	3.7	32	51	29	115	34	7.7	4.3	3.4	2.6	2.4
CFSM	.02	.33	1.42	3.45	3.19	8.71	2.50	.06	.02	.03	.06	.02
IN.	.02	.37	1.63	3.98	3.32	10.04	2.79	.07	.02	.04	.07	.02

CAL YR 1976 TOTAL 173371.7 MEAN 474 MAX 22700 MIN 3.3 CFSM 1.84 IN 25.00
WTR YR 1977 TOTAL 155247.5 MEAN 425 MAX 15200 MIN 2.4 CFSM 1.65 IN 22.38

02468500 CHICKASAW BOGUE NEAR LINDEN, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1972 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water years 1966, 1968, and 1969.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
MAR											
29...	725	205	7.5	17.0	9.2	81	16	30	1.4	6.5	.3
SEP											
07...	7.8	186	7.2	24.5	5.7	67	6	24	1.7	5.5	.3

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)
MAR											
29...	1.8	80	0	17	7.8	.1	5.9	113	221	.72	3.2
SEP											
07...	1.3	74	0	8.4	5.4	.1	7.4	94	1.98	.80	3.5

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
MAR										
29...	1	1	1	1	290	1	17	.2	210	100
SEP										
07...	1	<1	1	<1	110	<1	220	.2	190	20

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT			
06...	3.6	355	22.0
NOV			
15...	102	315	9.0
DEC			
13...	2120	140	11.0
JAN			
24...	203	262	6.5
MAR			
07...	1140	165	11.0

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
APR			
18...	39	265	21.5
MAY			
31...	7.6	305	29.5
JUL			
11...	5.1	220	30.0
AUG			
23...	4.6	239	32.0

02469761 TOMBIGBEE RIVER AT COFFEEVILLE LOCK AND DAM, NEAR COFFEEVILLE, AL

LOCATION.--Lat 31°45'30", long 88°07'45", in sec. 12, T. 9 N., R. 2 W., Choctaw County, Hydrologic Unit 03160203, near right bank at Coffeeville lock and dam, 4 mi (6 km) downstream from Turkey Creek, 2 mi (3 km) west of Coffeeville, and at mile 74.7 (120.2 km).

DRAINAGE AREA.--18,500 mi^2 (48,000 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1960 to current year (water years 1961-67 published in 1977 annual report).

GAGE.--Water-stage recorder. Datum of gage is 14.00 ft (4.267 m) below mean sea level. Auxiliary water-stage recorder 0.5 mi (0.8 km) downstream from base gage at same datum.

REMARKS.--Records fair. Some regulation by Lewis Smith Reservoir on Sipsey Fork (station 02451950), Bankhead lock and dam on Black Warrior River, usable capacity, 112,000 acre-ft (138 hm^3), Holt lock and dam on Black Warrior River, usable capacity, 115,000 acre-ft (142 hm^3), and lock and dam at gage.

AVERAGE DISCHARGE.--17 years, 29,310 ft^3/s (830.1 m^3/s), 21.51 in/yr (546 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 251,000 ft^3/s (7,110 m^3/s) Mar. 4, 1961, gage height, 65.39 ft (19.931 m), minimum discharge, 902 ft^3/s (25.5 m^3/s) June 28, 1966 (results of abnormal regulation).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 1, 1874 (correction) reached a stage of 67.4 ft (20.54 m), discharge not determined, at site 0.5 mi (0.8 km) downstream at present datum.

EXTREMES.--Water years 1961-67. Maximum daily discharge, maximum gage height, and minimum discharge are contained in the following table:

Water year	Maximum daily discharge			Maximum gage height			Minimum daily discharge		
	Date	(ft^3/s)	(m^3/s)	Date	(ft)	(m)	Date	(ft^3/s)	(m^3/s)
1961	Mar. 4, 1961	251000	7110	Mar. 4, 1961	65.39	19.931	Oct. 5, 1960	1270	36.0
1962	Dec. 29, 1961	197000	7110	Dec. 29, 1961	61.82	18.843	Sept. 5, 1962	1330	37.7
1963	Mar. 16, 1963	66800	1890	*			Sept.19, 1963	951	26.9
1964	Apr. 16, 1964	151000	4280	Apr. 16, 1964	56.90	17.343	Oct. 18, 1963	942	26.7
1965	Feb. 22, 23, 1965	131000	3710	Feb. 22, 1965	54.50	16.612	May 14, 1965	1260	35.7
1966	Feb. 22, 1966	137000	3880	Feb. 21, 1966	55.76	16.996	June 28, 1966	902	25.2
1967	Feb. 24, 1967	60500	1710	*			Sept.25, 1967	2120	60.0

* Maximum gage height did not exceed normal pool.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 160,000 ft^3/s (4,530 m^3/s) Apr. 14, 15; maximum gage height, 56.77 ft (17.303 m) Apr. 15; minimum daily discharge, 2,030 ft^3/s (57.5 m^3/s) Oct. 18.

02469761 TOMBIGBEE RIVER AT COFFEEVILLE LOCK AND DAM, NEAR COFFEEVILLE, AL--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8770	5870	18200	29100	21000	82600	90000	15900	7430	5570	12200	3280
2	4820	5760	22900	23000	19600	76800	105000	15500	6750	4060	11600	2690
3	5410	8500	18900	20900	19100	63600	104000	15000	8000	3800	12200	2430
4	4040	6980	15400	24200	17800	64000	104000	17000	7680	4680	11000	2560
5	3100	7010	11200	24200	17700	80000	104000	14700	7380	2870	13600	2120
6	3410	5480	8270	23300	16900	94100	105000	15700	6380	2280	11000	4140
7	4120	5770	10900	26000	13800	102000	110000	15000	4310	3440	9360	9070
8	6190	3880	11100	27700	13200	107000	119000	14600	4600	3860	6880	20100
9	5330	4660	9760	46100	14900	112000	125000	14000	3050	4720	5140	30400
10	6820	5790	12800	70700	12500	115000	129000	13400	3850	4390	6150	28100
11	4270	5580	13200	82300	12000	114000	139000	12600	3000	4890	6740	19500
12	4370	5040	18800	92300	11900	117000	147000	13000	5110	5280	4840	9570
13	3360	3040	22400	93600	15400	141000	154000	10200	4070	6650	4190	8930
14	3530	5840	28000	96000	14400	148000	160000	10000	4030	7020	4690	9670
15	2770	5950	33700	99500	15700	154000	160000	7270	4230	7490	3430	10500
16	3580	5990	32900	97700	15700	154000	152000	5660	4210	5930	2640	12400
17	2210	7720	29000	94500	14500	154000	139000	5880	4450	5840	3080	14500
18	2030	7000	24400	88900	13800	155000	120000	7290	4750	4470	3480	13600
19	2200	6480	21800	81600	10600	157000	74000	9330	5590	4610	5000	12000
20	2190	7280	18400	65800	9740	158000	50000	6310	6090	5560	4000	8860
21	2200	6960	17100	54500	9910	154000	25400	4740	5410	5760	4000	10100
22	2430	4040	21500	43400	9630	150000	25600	5450	5800	4620	2970	8860
23	4990	4650	26200	34000	14800	145000	35000	5000	6870	4600	3500	7840
24	3870	7320	25100	30400	44900	136000	42800	5760	5510	4150	3620	7040
25	4540	4650	24600	33100	62000	129000	46500	6290	6050	3710	3740	6660
26	2360	4590	34700	37600	68600	122000	46100	6790	6530	6080	5200	5180
27	3630	4690	43300	41700	74900	115000	40400	6370	4340	9180	6150	9620
28	4290	11600	46900	41000	82700	105000	31200	6130	3440	9000	7310	15100
29	6650	11500	45900	36100	---	79000	23300	7080	4590	13800	4690	13100
30	7590	15300	41000	34500	---	72000	18800	5880	4650	20200	2980	15900
31	7570	---	36400	25900	---	71000	---	6930	---	17900	3160	---
TOTAL	132640	194920	744730	1619600	667680	3627100	2725100	304760	158150	196410	188540	323820
MEAN	4279	6497	24020	52250	23850	117000	90840	9831	5272	6336	6082	10790
MAX	8770	15300	46900	99500	82700	158000	160000	17000	8000	20200	13600	30400
MIN	2030	3040	8270	20900	9630	63600	18800	4740	3000	2280	2640	2120
CFSM	.23	.35	1.30	2.82	1.29	6.32	4.91	.53	.29	.34	.33	.58
IN.	.27	.39	1.50	3.26	1.34	7.29	5.48	.61	.32	.39	.38	.65

CAL YR 1976 TOTAL 10937340 MEAN 29880 MAX 169000 MIN 2030 CFSM 1.62 IN 21.99
WTR YR 1977 TOTAL 10883450 MEAN 29820 MAX 160000 MIN 2030 CFSM 1.61 IN 21.88

02469761 TOMBIGBEE RIVER AT COFFEEVILLE LOCK AND DAM, NEAR COFFEEVILLE, AL--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9900	5170	6020	28800	15100	36800	11700	18700	7990	7420	11100	15100
2	5810	5900	5630	27100	13600	35400	10900	16800	7150	7260	10900	13300
3	4570	6320	5980	22900	12600	34800	9290	15600	6020	9200	15600	11500
4	6100	5720	3920	20100	13300	32500	8590	22900	8300	11300	13800	9740
5	7030	5830	2960	18800	11800	30000	7980	29100	7840	10600	16200	8340
6	7630	3780	5380	16800	22300	26900	6570	21900	6490	12000	16100	7980
7	6000	2720	4130	17700	43900	26300	7090	20900	6360	22100	15400	9390
8	5840	4290	7020	22500	38100	27900	7920	22600	7380	25100	17800	9690
9	4120	5180	7660	24100	29300	29200	6420	26200	5220	27300	22600	9310
10	3230	6690	21900	19900	23600	31000	4770	26100	3820	26500	35000	11400
11	6030	12600	28100	17400	19400	27500	5370	22500	4930	31500	40600	15200
12	5630	17300	31300	15100	21800	25500	5440	22100	2410	36700	41200	16100
13	4830	15200	28800	16300	25000	23100	5750	22400	4520	40300	32300	14600
14	5210	13700	26700	21600	22400	22600	6640	22600	4060	40400	22100	11700
15	5480	12100	23700	21600	22200	22500	6410	23100	3770	43700	14800	10100
16	4220	12400	20800	20600	19200	20900	4470	21300	3620	36000	15000	8300
17	3050	9990	20400	18500	15900	17800	4410	21900	3350	26300	12200	5300
18	6140	9890	11900	17400	19900	16200	4420	20100	2140	17700	12400	4770
19	8990	9470	11000	16800	25800	14300	5680	17700	2450	11800	12400	5010
20	12700	6940	12800	15400	31300	12000	5000	13000	2980	8130	12000	7600
21	13500	5090	12900	13500	38500	11600	4700	10400	4270	5740	6030	7360
22	11000	8320	12200	12100	49700	12300	5300	11100	3280	8570	6720	7900
23	8580	8000	12900	11300	53000	12000	4470	15900	4060	8270	10100	7030
24	7350	6900	14400	10400	60500	9800	4780	24900	3950	6490	14800	4860
25	7390	5880	8940	8780	57100	9680	4410	26200	5770	10900	26300	2120
26	7610	5430	9070	10000	46300	10100	7390	23200	4340	12900	45600	3780
27	7180	4900	9400	14600	39400	17700	8840	17800	3270	9470	45200	5980
28	6640	4200	11200	18100	37300	21100	14400	15600	3990	9410	43200	5660
29	5320	6440	14100	22900	---	18900	22700	11400	3620	6550	36300	6120
30	2630	6320	13800	21300	---	17100	21200	10700	4810	7140	30000	4400
31	2210	---	21600	17400	---	12800	---	9650	---	10700	21600	---
TOTAL	201920	232670	426610	559980	828300	666280	233010	604350	142160	547450	675350	259640
MEAN	6514	7756	13760	18060	29580	21490	7767	19500	4739	17660	21790	8655
MAX	13500	17300	31300	28800	60500	36800	22700	29100	8300	43700	45600	16100
MIN	2210	2720	2960	8780	11800	9680	4410	9650	2140	5740	6030	2120
CFSM	.35	.42	.74	.96	1.60	1.16	.42	1.05	.26	.96	1.18	.47
IN.	.41	.47	.86	1.13	1.67	1.34	.47	1.22	.29	1.10	1.36	.52

CAL YR 1966 TOTAL 7913605 MEAN 21680 MAX 137000 MIN 902 CFSM 1.17 IN 15.91
WTR YR 1967 TOTAL 5377720 MEAN 14730 MAX 60500 MIN 2120 CFSM .80 IN 10.81

02469761 TOMBIGBEE RIVER AT COFFEEVILLE LOCK AND DAM, NEAR COFFEEVILLE, AL--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11900	1230	3960	4880	19900	48000	13900	82200	13500	4690	3780	4400
2	7730	2520	4120	5290	23700	56600	13100	87400	11500	4820	3550	4390
3	6150	2890	4330	14500	26700	45400	11200	89000	10800	4740	4200	4580
4	4810	2700	3430	21700	29100	51000	19500	89000	8250	3250	6930	4360
5	4860	3270	2030	29800	28000	53900	30900	91200	7150	4290	11200	2880
6	6630	2920	2340	40900	25200	61100	38100	90300	5990	4320	15400	2510
7	6230	2830	2360	37300	20900	67600	35400	82700	6940	3870	9640	3050
8	6000	1930	3530	37500	17600	65800	27700	66700	7460	4280	6630	4050
9	7130	2310	3380	26200	14200	63000	21100	62600	7280	4020	6890	3560
10	6610	3010	3980	21100	32800	53100	17200	35700	8200	4220	5080	2950
11	5010	3030	4880	16500	75100	31900	14700	22500	10100	1520	4980	2480
12	4690	4660	7160	14100	71000	23800	14100	18100	9570	2630	5470	3310
13	3570	4350	5410	12000	86700	23200	12500	16200	5960	4340	7560	15600
14	5230	4150	5660	13800	94400	36800	12100	20700	4540	4120	10000	14200
15	5910	2460	6530	22900	100000	46200	11300	26900	5520	4790	8800	10200
16	3750	3340	7630	33100	107000	42600	11300	34700	7810	5770	7680	6800
17	3630	4280	6870	33800	117000	42000	10300	34800	13200	6740	7590	7130
18	2230	4260	9860	30600	122000	44700	9940	30300	11000	8300	8560	5350
19	3010	4300	15900	23600	137000	37700	11000	35100	9790	6380	8710	4700
20	3470	3800	11100	18600	134000	31400	10900	47300	6680	4670	7120	10800
21	2650	3440	9640	15400	134000	27300	14200	48900	5830	7190	6270	16700
22	3880	4280	7690	16500	137000	23700	26900	55400	5880	5580	4350	15300
23	3020	4140	6000	17700	130000	22100	38400	57800	6090	5010	5850	13600
24	3380	6270	5950	17400	125000	21300	42600	39700	5730	3740	5670	10300
25	956	7170	5890	19600	121000	21800	43300	32300	4820	2550	4020	6770
26	3190	4570	3510	19600	100000	20700	44600	31200	993	2920	3690	5080
27	4390	4170	5920	17600	81900	19300	57100	32800	4210	3140	2870	7210
28	4650	4930	5010	15600	61200	17900	63000	31300	902	3910	3130	8300
29	4290	3620	5160	26900	---	16600	73100	30200	1220	3570	2230	8420
30	3740	3090	5690	31200	---	15400	76000	25800	5390	4400	2990	8360
31	2460	---	4750	22700	---	14400	---	17900	---	4910	4030	---
TOTAL	145156	109920	179670	678370	2172400	1146300	825440	1466700	212305	138680	194870	217340
MEAN	4682	3664	5796	21880	77590	36980	27510	47310	7077	4474	6286	7245
MAX	11900	7170	15900	40900	137000	67600	76000	91200	13500	8300	15400	16700
MIN	956	1230	2030	4880	14200	14400	9940	16200	902	1520	2230	2480
CFSM	.25	.20	.31	1.18	4.19	2.00	1.49	2.56	.38	.24	.34	.39
IN.	.29	.22	.36	1.36	4.37	2.30	1.66	2.95	.43	.28	.39	.44

CAL YR 1965 TOTAL 7847586 MEAN 21500 MAX 131000 MIN 956 CFSM 1.16 IN 15.78
WTR YR 1966 TOTAL 7487151 MEAN 20510 MAX 137000 MIN 902 CFSM 1.11 IN 15.06

02469761 TOMBIGBEE RIVER AT COFFEEVILLE LOCK AND DAM, NEAR COFFEEVILLE, AL--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1964 TO SEPTEMBER 1965
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12400	7040	30900	31500	22100	75700	81000	14200	4150	5110	5750	4170
2	12400	5830	26900	34500	20200	67200	86700	12000	5460	5970	5250	5030
3	11100	4090	22000	31500	19600	61800	81700	8640	4480	4280	4780	6150
4	21900	5800	34300	30700	20000	62300	88400	10200	4470	6530	4480	9080
5	38600	5380	42100	28800	20600	60300	83800	10400	3970	5210	2290	5700
6	28200	6140	41500	28000	21400	56800	84900	8490	4000	7250	3280	2910
7	17100	6210	36200	25200	23200	53600	81700	7100	5120	7410	2420	3080
8	15600	6800	29400	23400	23000	51000	74900	5750	10800	11900	3940	3680
9	13500	4400	23500	21800	22500	45300	71200	6650	17500	12500	4720	3090
10	12200	3740	21500	24500	37900	39800	69400	5860	16800	12200	6600	3120
11	9590	5510	36900	28900	57600	36600	73200	6340	13800	10400	8100	3550
12	5270	5680	66600	35500	78700	39800	70100	5980	14900	11700	9080	3920
13	5820	5870	69900	35800	82600	62000	61800	11700	17600	9820	8500	6400
14	7120	6090	70200	33200	93800	63200	56100	1260	20300	5270	6500	6140
15	24400	4590	71700	29100	93400	61500	50200	4890	22900	4910	5810	9450
16	22400	3310	68600	24200	98600	59300	39600	4290	16900	6430	4200	9050
17	14800	4000	61800	20700	104000	55800	29100	3810	14800	8850	5030	7030
18	13200	4730	55800	19800	113000	46500	26000	3430	15100	6770	3410	5740
19	9380	7000	44800	19200	115000	42900	23800	5140	10800	4910	5610	4250
20	8680	8520	38400	16900	117000	44500	20000	4900	9050	4470	5430	2760
21	7700	8150	37000	17900	127000	42300	20300	5130	7110	2440	5260	2510
22	6810	7620	36900	18700	131000	41600	19400	5350	3310	4270	5590	3590
23	6350	7440	37300	73100	131000	37000	18200	7150	5610	3530	3610	4290
24	5740	14600	35700	89100	126000	33300	17500	4400	5340	5650	4230	2960
25	6100	24200	33100	92000	125000	31400	16200	5230	6810	4620	4110	3960
26	3820	26100	30700	88000	123000	35600	16900	6230	5060	7090	4430	4170
27	3410	24600	29700	81500	111000	43700	17200	5700	6010	6790	5140	3140
28	4810	25900	25900	67900	96600	61300	17200	6440	3280	6960	8620	3820
29	5410	29800	25500	44000	---	73400	15700	7080	3960	9580	11600	4430
30	5930	30200	24900	28700	---	75200	14800	5430	3610	7980	6300	11800
31	6980	---	26700	24200	---	80300	---	3710	---	7280	4740	---
TOTAL	366720	309340	1236400	1168300	2154800	1641000	1427000	202880	283000	218080	168810	148970
MEAN	11830	10310	39880	37690	76960	52940	47570	6545	9433	7035	5445	4966
MAX	38600	30200	71700	92000	131000	80300	88400	14200	22900	12500	11600	11800
MIN	3410	3310	21500	16900	19600	31400	14800	1260	3280	2440	2290	2510
CFSM	.64	.56	2.16	2.04	4.16	2.86	2.57	.35	.51	.38	.29	.27
IN.	.74	.62	2.49	2.35	4.33	3.30	2.87	.41	.57	.44	.34	.30

CAL YR 1964 TOTAL 13344930 MEAN 36460 MAX 151000 MIN 1060 CFSM 1.97 IN 26.83
WTR YR 1965 TOTAL 9325300 MEAN 25550 MAX 131000 MIN 1260 CFSM 1.38 IN 18.75

02469761 TOMBIGBEE RIVER AT COFFEEVILLE LOCK AND DAM, NEAR COFFEEVILLE, AL--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1963 TO SEPTEMBER 1964
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1060	1240	8160	8040	49100	32100	78700	127000	6280	9200	6980	4440
2	3170	3240	8080	7410	36000	47200	65100	122000	5700	8740	7850	5120
3	2750	2670	6960	8380	32000	65000	50600	123000	7070	9810	6270	4960
4	2060	1230	8530	13400	26500	74400	35300	124000	7540	10600	7820	3890
5	1060	1520	4560	17900	22500	85300	33500	126000	6530	13600	8810	3070
6	1780	3190	5240	20500	20800	92700	71300	125000	10200	11300	10400	3090
7	997	2030	4340	25000	23700	91900	100000	124000	10800	7890	7630	2040
8	2110	3020	3640	27800	23500	92700	112000	121000	6740	6690	7740	2880
9	1370	3870	3430	33600	23400	94800	122000	117000	7160	7360	5000	1390
10	1880	3000	3440	47200	23800	98800	131000	90500	7580	9010	4120	2730
11	3200	2990	4150	54400	20200	97100	137000	95900	5340	8400	3210	3600
12	2580	2710	17600	66600	19700	98100	141000	83300	8450	17800	3710	3430
13	1160	2600	27100	64300	19200	102000	145000	65400	5500	21100	6000	2560
14	3770	3060	30500	55300	20300	10600	147000	53500	4990	24700	6750	1060
15	1030	2050	35200	44200	24400	108000	148000	26700	3900	25000	5540	1310
16	2690	2960	35600	38900	30200	111000	151000	19900	4050	19400	12400	3070
17	1290	1870	33100	37000	37400	113000	148000	21900	5230	17500	12200	2300
18	942	1880	30200	32900	53100	115000	147000	19500	4610	17700	15600	3490
19	2260	1540	23800	26200	61200	117000	146000	18000	4640	16100	18300	3060
20	1420	2790	16600	21200	61000	119000	145000	16100	4150	12900	18300	2880
21	973	1850	10800	17200	56200	121000	145000	14900	3840	10300	16700	2090
22	1220	3230	11800	18100	55600	123000	145000	12600	2830	13100	12600	2800
23	1820	4030	9160	14900	49200	125000	144000	11200	2720	18600	6860	3600
24	1140	3380	9370	19200	40500	123000	143000	10700	5290	16300	4430	5180
25	1040	1990	14700	36000	38000	124000	140000	8210	6050	11300	6240	4120
26	1980	3450	9770	51200	40100	120000	132000	7970	6150	12200	7120	3880
27	2710	3340	11800	62100	38000	117000	132000	9480	5410	10800	5610	2450
28	1620	5180	7370	65200	35400	114000	132000	6860	4800	7990	7190	1620
29	1070	5390	10600	68600	32500	103000	124000	6260	4520	7210	6280	3200
30	1340	6360	8930	65000	---	100000	127000	10100	4450	6930	5540	7070
31	1900	---	13000	56200	---	94700	---	5780	---	6110	2640	---
TOTAL	55392	87660	427530	1123930	1013500	3030400	3618500	1723760	174520	395640	255840	96380
MEAN	1787	2922	13790	36260	34950	97750	120600	55610	5817	12760	8253	3213
MAX	3770	6360	35600	68600	61200	125000	151000	127000	10800	25000	18300	7070
MIN	942	1230	3430	7410	19200	10600	33500	5780	2720	6110	2640	1060
CFSM	.10	.16	.75	1.96	1.89	5.28	6.52	3.01	.31	.69	.45	.17
IN.	.11	.18	.86	2.26	2.04	6.09	7.28	3.47	.35	.80	.51	.19

CAL YR 1963 TOTAL 5671708 MEAN 15540 MAX 66800 MIN 942 CFSM .84 IN 11.40
WTR YR 1964 TOTAL 12003052 MEAN 32800 MAX 151000 MIN 942 CFSM 1.77 IN 24.14

02469761 TOMBIGBEE RIVER AT COFFEEVILLE LOCK AND DAM, NEAR COFFEEVILLE, AL--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1962 TO SEPTEMBER 1963
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4450	2630	3710	10200	30200	18000	13300	32800	39400	16300	15000	4150
2	1800	3490	3820	11600	32600	20000	14500	43800	37200	13600	14300	1760
3	2820	3690	3070	9490	42200	19300	14500	48200	34400	9860	17700	2130
4	2560	4090	3280	8870	47200	19900	12600	54400	30300	15800	10900	4190
5	2820	1910	2980	6010	43800	25300	11200	55500	23500	14500	8420	7170
6	1880	2440	2540	7080	38700	44500	10500	48100	17300	13400	8070	5850
7	3470	3300	3520	6420	33800	52100	11500	35200	13800	8920	7590	9540
8	3630	1880	4730	4390	28700	57100	14200	29200	11200	9180	6760	5870
9	4160	2320	2220	4770	22200	58400	21900	23700	6740	10400	7530	4010
10	2940	4650	3460	4860	18200	55800	17400	18300	6850	12800	6420	5720
11	3010	6270	3030	7180	15500	47100	17700	13400	5590	13500	6180	5210
12	2780	2910	3170	18500	15500	39500	16500	10800	7770	7180	2970	3220
13	2800	2590	3050	19000	15900	53900	14100	11500	9710	6790	5000	4080
14	3360	2380	3050	13500	16300	57900	11300	9010	5260	6550	8100	3240
15	2460	1930	4760	13400	15600	63400	9210	8530	2980	14800	8270	2320
16	2910	2230	2860	7150	14100	66800	8900	7440	3960	25000	9790	1930
17	2510	2800	3520	10500	12000	63800	9350	5910	5980	31700	7400	2140
18	1830	5950	2970	13700	13900	61100	9780	6390	5670	42700	6030	3060
19	2580	4230	2700	26100	24600	52300	9750	4490	4550	47200	4590	951
20	3720	6710	2810	41700	25500	50300	7230	4900	7760	45200	2420	955
21	3830	12300	4250	56600	24800	54400	9190	4490	9530	37000	5310	3690
22	2960	8730	3370	46400	24200	54500	8390	5410	22100	42300	4180	2530
23	2270	11500	3640	37200	23300	53100	7300	4800	28000	42400	5380	1860
24	2250	11000	3960	30300	21600	47900	7440	3980	32900	42100	6340	3800
25	2010	10500	5940	24400	18700	34400	5560	3980	32300	40200	6350	1010
26	2210	6950	3910	21900	15900	23800	8350	7490	25300	36900	1350	1010
27	2710	3980	5860	17800	14800	24300	8520	15500	20900	28200	3870	4000
28	2130	6550	5270	15300	13000	24900	9270	29400	20000	15800	5370	2850
29	3420	7870	8940	17100	---	24400	23800	40900	19600	16400	4960	1950
30	2880	6130	9610	18800	---	24100	25500	46300	18600	14000	4980	1310
31	2060	---	8400	25600	---	20600	---	42600	---	16500	5080	---
TOTAL	87220	153910	128400	555820	662800	1312900	368740	676420	509150	697180	216610	101506
MEAN	2814	5130	4142	17930	23670	42350	12290	21820	16970	22490	6987	3384
MAX	4450	12300	9610	56600	47200	66800	25500	55500	39400	47200	17700	9540
MIN	1800	1880	2220	4390	12000	18000	5560	3980	2980	6550	1350	951
CFSM	.15	.28	.22	.97	1.28	2.29	.66	1.18	.92	1.22	.38	.18
IN.	.18	.31	.26	1.12	1.33	2.64	.74	1.36	1.02	1.40	.44	.20

CAL YR 1962 TOTAL 10754810 MEAN 29470 MAX 181000 MIN 1330 CFSM 1.59 IN 21.63
WTR YR 1963 TOTAL 5470656 MEAN 14990 MAX 66800 MIN 951 CFSM .81 IN 11.00

02469761 TOMBIGBEE RIVER AT COFFEEVILLE LOCK AND DAM, NEAR COFFEEVILLE, AL--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1961 TO SEPTEMBER 1962
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1990	3130	28600	181000	99100	83700	52900	37700	2760	9300	4890	3430
2	5080	2030	23600	165000	100000	82100	54800	34000	3760	8370	4450	2980
3	4930	3840	15400	151000	105000	83100	55900	29100	11900	6300	4750	1710
4	3360	4140	10300	139000	107000	81100	59800	25500	12700	6200	4620	2210
5	3730	4880	11300	132000	112000	78000	60500	23600	11000	4800	5770	1330
6	4060	6450	11200	126000	117000	79400	62500	19500	8550	4460	5730	4050
7	4720	5350	12100	120000	119000	72300	63500	20500	8880	5290	4700	5350
8	4590	6140	14900	112000	111000	68700	64500	19300	10100	7280	3920	3980
9	4010	5960	21500	105000	107000	65300	67100	17800	10100	9160	3990	2410
10	4590	5400	57200	96200	107000	62200	69600	15100	9050	6990	3530	2360
11	3230	5360	50700	95300	96200	61600	71800	9500	11100	7590	4990	2000
12	4370	3600	52600	93500	74100	65100	74500	8840	15700	4310	4290	2690
13	3040	4610	78100	90900	40600	66000	79000	7200	10600	2700	2470	6200
14	3490	8260	85000	85700	28900	68200	82000	7850	11200	2720	3240	6510
15	2220	14800	94100	80000	27400	71700	86000	12400	11000	1770	2150	3810
16	2760	22800	96500	77400	27600	72000	91500	9480	10900	1880	4060	4790
17	3360	25400	105000	74600	29200	68000	96300	7690	8410	1850	3130	4290
18	2120	27200	112000	74200	31800	65700	98000	7660	6980	4330	4000	3580
19	2930	26400	122000	83300	31100	60500	102000	7630	4950	4420	1910	3500
20	1870	27500	140000	89400	29500	53000	108000	7600	6180	3150	1620	5940
21	2130	25900	152000	91100	31000	41600	112000	7640	8660	3910	2360	3420
22	2150	21800	160000	92500	41600	32400	118000	7570	5170	2530	1750	3480
23	1960	27500	164000	95000	62200	28900	117000	4780	5640	2420	4740	2610
24	2910	27100	169000	91800	63900	28000	111000	4190	5760	2440	2660	1510
25	2230	28300	175000	87600	72900	29100	103000	4180	5900	2780	3050	2390
26	2510	30100	179000	85000	75400	30100	95300	4320	6470	3460	2860	2010
27	1590	30200	184000	89100	75500	31500	76800	5770	9820	6220	2200	3130
28	2900	30000	191000	91500	79500	34900	70000	10400	9840	3840	1800	2300
29	2860	27000	197000	92600	---	36400	58600	2620	12300	6840	2680	2150
30	2870	29300	193000	94600	---	33500	51400	2590	11400	7810	2030	1770
31	2270	---	190000	97500	---	47400	---	4120	---	6420	1500	---
TOTAL	96830	490450	3096100	3179800	2002500	1781500	2413300	386130	266780	151540	105840	97890
MEAN	3124	16350	99870	102600	71520	57470	80440	12460	8893	4888	3414	3263
MAX	5080	30200	197000	181000	119000	83700	118000	37700	15700	9300	5770	6510
MIN	1590	2030	10300	74200	27400	28000	51400	2590	2760	1770	1500	1330
CFSM	.17	.88	5.40	5.55	3.87	3.11	4.35	.67	.48	.26	.19	.18
IN.	.19	.99	6.23	6.39	4.03	3.58	4.85	.78	.54	.30	.21	.20

CAL YR 1961 TOTAL 15198240 MEAN 41640 MAX 251000 MIN 1590 CFSM 2.25 IN 30.56
WTR YR 1962 TOTAL 14068660 MEAN 38540 MAX 197000 MIN 1330 CFSM 2.08 IN 28.29

02469761 TOMBIGBEE RIVER AT COFFEEVILLE LOCK AND DAM, NEAR COFFEEVILLE, AL--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1960 TO SEPTEMBER 1961
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2950	10300	10200	23300	13300	230000	114000	31500	8030	14100	8100	7560
2	3880	9360	9210	31800	13400	243000	118000	21300	6830	10800	5900	5830
3	4820	11600	10200	32600	13000	249000	120000	17400	7070	11900	4830	11900
4	1720	8060	8460	35400	13700	251000	122000	18800	6330	12000	8480	11300
5	1270	9770	7560	27100	16800	247000	123000	18000	6280	11600	7460	6310
6	1290	7260	7130	25400	18200	242000	125000	16800	6280	8070	4830	8340
7	1390	6500	7170	23000	17200	236000	127000	14300	6240	8120	10700	7260
8	10300	5920	7360	21100	16400	226000	128000	13100	5290	7360	11500	7240
9	7520	5920	6250	19000	16500	214000	128000	14300	3800	10100	9920	5240
10	3370	5130	5280	17000	20800	200000	127000	14300	5680	10900	7210	6880
11	6860	5540	6860	12500	22300	181000	124000	20300	7120	15600	6510	5490
12	7600	8170	8080	13300	19000	167000	120000	20200	8080	26800	6660	5360
13	7370	9870	8300	12600	17500	155000	117000	17100	7840	34500	5250	5070
14	4620	9190	9500	13900	15200	144000	113000	15800	8870	43900	5510	7870
15	7190	9250	10600	15500.	14000	134000	110000	15200	8420	44500	5120	7440
16	4450	9340	10900	13600	13900	126000	106000	11800	9010	41600	8220	5660
17	4900	6700	10200	11900	16600	120000	99700	11600	8360	38800	12700	4810
18	5520	7000	8970	11100	65300	115000	91300	11500	7250	34800	9300	4560
19	5050	6760	8760	12100	79600	112000	80500	16900	8150	33000	12200	4570
20	3870	6160	8560	13300	87400	108000	70000	14700	13300	28300	17200	4620
21	6450	6880	13200	14900	103000	105000	58600	12600	32200	22600	13300	4610
22	3940	6680	16400	16100	126000	102000	25100	11200	25800	21500	8170	4630
23	4190	10200	16600	16500	132000	98100	24000	9920	19000	18700	9880	4500
24	3900	3820	16900	13800	145000	95200	21500	8770	17300	16300	7150	4680
25	6720	12000	13800	16700	165000	92200	17900	7320	21100	15400	9360	3380
26	5720	11400	13100	21500	184000	87400	18200	9180	29300	15300	8780	3270
27	4650	12800	11800	25300	199000	81500	19500	7360	43700	13200	8120	3710
28	4500	10700	11100	20900	216000	80300	27900	7280	35500	11400	6710	3730
29	4500	9300	12600	19100	---	83700	33500	10700	23700	12800	8120	2620
30	2720	10800	14500	15800	---	90900	33900	9600	15200	8990	6910	1930
31	18800	---	10100	14200	---	103000	---	9210	---	8050	7030	---
TOTAL	162030	252380	319650	580300	1780100	4719300	2543600	438040	411030	610990	261130	170370
MEAN	5227	8413	10310	18720	63580	152200	84790	14130	13700	19710	8424	5679
MAX	18800	12800	16900	35400	216000	251000	128000	31500	43700	44500	17200	11900
MIN	1270	3820	5280	11100	13000	80300	17900	7280	3800	7360	4830	1930
CFSM	.28	.46	.56	1.01	3.44	8.23	4.58	.76	.74	1.07	.46	.31
IN.	.33	.51	.64	1.17	3.58	9.49	5.11	.88	.83	1.23	.53	.34

WTR YR 1961 TOTAL 12248920 MEAN 33560 MAX 251000 MIN 1270 CFSM 1.81 IN 24.63

02469762 TOMBIGBEE RIVER BELOW COFFEEVILLE LOCK AND DAM, NEAR COFFEEVILLE, AL

LOCATION.--Lat 31°45'50", long 88°07'35", in sec. 12, T. 9 N., R. 2 W., Choctaw County, Hydrologic Unit 03160203, near right bank at downstream end of Coffeeville lock and dam, 4 mi (6 km) downstream from Turkey Creek, 2 mi (3 km) west of Coffeeville, and at mile 74.2 (119.4 km).

DRAINAGE AREA.--18,500 mi^2 (48,000 km^2), approximately.

PERIOD OF RECORD.--August 1960 to current year (gage heights only). October 1971 to current year in reports of Geological Survey. August 1960 to September 1971 in files of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 14.00 ft (4.267 m) below mean sea level.

COOPERATION.--Records furnished by Corps of Engineers.

EXTREMES (AT 0700) FOR PERIOD OF RECORD.--Maximum gage height, 64.2 ft (19.57 m) Mar. 4, 1961; minimum, 14.0 ft (4.27 m) Oct. 30, 1963, Oct. 29, 1968.

EXTREMES (AT 0700) FOR CURRENT YEAR.--Maximum gage height, 55.1 ft (16.79 m) Apr. 15; minimum, 14.4 ft (4.39 m) Oct. 21.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 0700

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.40	17.70	24.50	30.80	27.70	44.50	46.20	26.10	18.30	17.20	23.30	16.90
2	16.70	16.50	26.00	28.70	26.50	44.30	47.80	24.10	17.90	16.90	21.80	16.30
3	16.30	17.20	25.70	26.80	25.50	44.00	48.70	24.60	18.70	16.20	20.90	16.50
4	16.70	17.80	24.60	27.30	25.20	43.70	49.10	24.80	18.70	16.70	21.10	16.30
5	15.80	17.60	23.70	28.20	25.10	45.20	49.40	24.60	18.70	15.70	21.40	16.80
6	16.30	16.70	20.70	27.50	24.90	46.60	49.70	24.00	18.30	15.70	21.40	16.90
7	15.30	16.30	20.20	27.80	23.30	47.60	50.00	24.00	17.40	15.20	20.00	18.80
8	16.40	16.20	21.30	29.10	22.30	48.60	50.40	23.40	16.90	15.70	19.20	19.20
9	16.70	16.00	20.50	29.60	22.80	49.20	51.00	22.50	16.60	16.20	17.20	26.20
10	17.10	16.00	21.40	37.40	22.20	49.90	51.80	22.10	16.00	16.30	17.20	28.40
11	16.90	16.00	21.20	41.90	21.60	50.60	51.50	21.90	15.80	16.30	17.60	27.20
12	16.50	16.80	24.80	43.80	21.30	51.20	53.50	21.60	16.00	17.60	17.70	23.30
13	16.00	15.20	26.60	44.90	22.40	53.10	54.40	21.50	15.50	17.10	16.80	20.10
14	15.50	15.60	29.00	45.90	22.70	53.90	55.00	20.40	16.20	17.20	16.90	19.70
15	15.90	17.40	30.70	47.20	22.70	54.40	55.10	19.80	15.90	17.60	16.10	20.10
16	15.40	17.20	31.30	47.60	22.90	54.50	54.90	18.40	16.70	17.50	16.20	20.80
17	15.80	18.20	30.20	47.40	22.60	54.50	54.20	17.40	16.20	17.10	15.60	21.80
18	14.70	18.20	28.50	47.00	22.20	54.60	52.70	18.40	17.10	17.10	16.20	22.70
19	15.00	18.00	27.10	45.90	21.40	54.60	50.10	18.80	17.10	17.10	16.50	22.30
20	15.10	18.10	25.00	44.20	19.60	54.40	45.20	18.90	17.40	16.90	17.30	20.40
21	14.40	18.10	23.60	41.50	19.80	54.30	37.50	17.70	16.80	17.30	16.80	20.40
22	14.60	16.80	24.40	39.40	19.40	54.30	33.70	17.30	17.00	16.70	16.70	19.90
23	16.10	15.90	26.20	36.40	20.70	53.70	33.90	17.60	17.80	16.30	16.10	19.00
24	16.40	16.60	27.20	33.90	28.50	53.20	35.30	18.00	17.00	16.20	15.70	18.80
25	16.90	16.60	26.50	32.50	38.20	52.70	36.70	18.00	16.60	15.60	16.30	18.40
26	15.90	16.20	28.70	32.50	41.60	51.80	37.10	17.80	17.60	16.50	16.50	17.80
27	15.10	16.50	32.20	33.60	43.10	50.50	36.50	17.80	17.00	17.50	17.30	18.10
28	15.20	18.20	34.00	34.20	44.20	47.90	34.20	18.00	16.00	18.50	17.60	20.70
29	16.40	21.90	34.90	33.30	---	44.00	30.70	18.40	15.90	19.50	18.20	21.60
30	17.00	22.50	34.40	31.90	---	41.50	28.00	18.00	16.60	22.30	16.90	21.70
31	18.20	---	32.70	29.80	---	44.10	---	17.90	---	24.00	16.30	---
MEAN	16.02	17.27	26.70	36.39	25.73	49.92	45.48	20.45	16.99	17.22	17.90	20.24
MAX	18.20	22.50	34.90	47.60	44.20	54.60	55.10	26.10	18.70	24.00	23.30	28.40
MIN	14.40	15.20	20.20	26.80	19.40	41.50	28.00	17.30	15.50	15.20	15.60	16.30

02469762 TOMBIGBEE RIVER BELOW COFFEEVILLE LOCK AND DAM, NEAR COFFEEVILLE, AL
(National stream-quality accounting network station)

LOCATION.--Lat 31°45'50", long 88°07'35", in sec. 12, T. 9 N., R. 2 W., Choctaw County, Hydrologic Unit 03160203, near right bank about 0.5 mi (0.8 km) downstream from Coffeeville lock and dam, 4 mi (6 km) downstream from Turkey Creek, 2 mi (3 km) west of Coffeeville, and at mile 74.7 (120.2 km).

DRAINAGE AREA.--18,500 mi^2 (47,900 km^2), approximately.

PERIOD OF RECORD.--October 1969 to September 1973, August 1974 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1975 to current year.
WATER TEMPERATURES: April 1975 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water years 1967, 1969. No specific conductance or water temperature data for some days because of equipment malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 274 micromhos Nov. 7, 1976; minimum daily, 84 micromhos Apr. 9, 1975.
WATER TEMPERATURES: Maximum daily, 32.0°C July 14, 1977; minimum daily, 5.0°C Jan. 20, 1977.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 274 micromhos Nov. 7; minimum daily, 90 micromhos Mar. 13.
WATER TEMPERATURES: Maximum daily, 32.0°C July 14; minimum daily, 5.0°C Jan. 20.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM .7UM-MF (COL./100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
OCT												
21...	1760	216	7.5	21.0	15	9.0	8	10	58	19	16	4.3
NOV												
17...	7050	179	7.1	12.5	15	11.8	82	79	47	8	15	2.3
DEC												
16...	32400	155	7.3	8.5	35	--	240	160	54	21	15	4.0
FEB												
01...	21500	140	6.7	5.0	40	14.2	36	90	45	14	14	2.5
MAR												
09...	112000	117	7.3	12.0	95	8.6	150	140	46	16	15	2.0
APR												
01...	155000	119	7.4	17.5	70	8.4	390	380	51	13	17	2.0
MAY												
13...	8800	135	7.2	23.0	25	8.9	18	14	42	16	13	2.2
JUN												
07...	2830	166	7.6	28.0	20	7.8	2	16	51	12	16	2.8
JUL												
20...	4930	222	7.7	26.5	6	7.6	6	5	60	17	17	4.2
AUG												
10...	5950	193	8.1	30.5	20	8.4	9	7	59	15	18	3.4
SEP												
19...	10100	188	7.8	27.5	25	8.4	25	85	54	17	17	2.9

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
OCT											
21...	15	.9	2.5	47	0	31	15	.2	6.4	--	116
NOV											
17...	14	.9	2.2	47	0	17	18	.3	7.6	110	102
DEC											
16...	10	.6	2.4	40	0	25	8.1	.1	7.7	89	96
FEB											
01...	8.1	.5	1.4	38	0	19	5.9	.3	7.2	--	77
MAR											
09...	5.2	.3	1.8	36	0	17	4.1	.1	5.3	73	68
APR											
01...	3.7	.2	1.4	46	0	11	3.8	.1	6.8	78	74
MAY											
13...	6.0	.4	1.6	31	0	15	7.3	.0	7.7	--	71
JUN											
07...	11	.7	1.7	48	0	19	12	.1	6.9	95	96
JUL											
20...	16	.9	2.0	52	0	30	18	.1	1.1	120	117
AUG											
10...	12	.7	2.2	54	0	24	12	.1	6.9	113	108
SEP											
19...	12	.7	2.5	45	0	24	13	.1	6.4	108	104

02469762 TOMBIGBEE RIVER BELOW COFFEEVILLE LOCK AND DAM NEAR COFFEEVILLE, AL--Continued

WATER-QUALITY RECORDS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS)	CHLOR-A PERI-PHYTON CHROMO-SPECT-METRIC (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-SPECT-METRIC (MG/M2)	TOTAL ORGANIC CARBON (C) (MG/L)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT											
21...	551	.36	.28	.04	--	--	--	--	9	43	100
NOV											
17...	2090	.25	.31	.07	632	.729	.389	7.8	9	171	100
DEC											
16...	7790	.30	.52	.13	--	--	--	--	64	5600	95
FEB											
01...	4470	.34	.48	.10	--	--	--	--	55	3190	97
MAR											
09...	22100	.31	1.0	.26	--	--	--	--	396	120000	74
APR											
01...	32600	.23	.84	.18	--	--	--	--	269	113000	78
MAY											
13...	1690	.29	.33	.05	--	--	--	--	24	570	96
JUN											
07...	726	.47	.17	.06	--	--	--	11	20	153	98
JUL											
20...	1600	.20	.52	.04	--	--	--	5.8	11	146	99
AUG											
10...	1820	.46	.69	.05	--	--	--	--	15	241	--
SEP											
19...	2950	.48	.41	.09	--	--	--	--	18	491	96

DATE	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)
NOV											
17...	1	0	1	7	4	3	10	10	0	0	0
JUN											
07...	--	--	2	--	0	2	10	10	0	2	0
JUL											
20...	--	--	1	0	0	0	10	8	2	0	0

DATE	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	SUS-PENDED MAN-GANESE (MN) (UG/L)
NOV											
17...	0	3	1	2	740	220	58	4	54	50	20
JUN											
07...	2	3	1	2	1600	180	--	0	26	80	50
JUL											
20...	0	5	5	0	460	100	4	0	4	50	30

02469762 TOMBIGBEE RIVER BELOW COFFEEVILLE LOCK AND DAM NEAR COFFEEVILLE, AL--Continued

WATER-QUALITY RECORDS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
NOV										
17...	30	.1	.0	.1	0	0	0	20	20	0
JUN										
07...	30	--	--	.0	--	--	0	80	70	10
JUL										
20...	20	--	--	.0	--	--	0	20	20	0

DATE	TOTAL ATRA-ZINE (UG/L)	TOTAL ALDRIN (UG/L)	TOTAL CHLOR-DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDT (UG/L)	TOTAL DI-AZINON (UG/L)	TOTAL DI-ELDRIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL ETHION (UG/L)	TOTAL HEPTA-CHLOR (UG/L)
NOV										
17...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB										
01...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAY										
13...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SEP										
19...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

DATE	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	TOTAL LINDANE (UG/L)	TOTAL MALA-THION (UG/L)	TOTAL METH-OXY-CHLOR (UG/L)	TOTAL METHYL PARA-THION (UG/L)	TOTAL METHYL TRI-THION (UG/L)	TOTAL PARA-THION (UG/L)	TOTAL TOX-APHENE (UG/L)	TOTAL TRI-THION (UG/L)	SIMA-ZINE TOTAL((UG/L)
NOV										
17...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB										
01...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAY										
13...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SEP										
19...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

02469762 TOMBIGBEE RIVER BELOW COFFEEVILLE LOCK AND DAM NEAR COFFEEVILLE, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE	OCT 21,76	NOV 17,76	DEC 16,76	FEB 1,77
TIME	0915	0905	0845	1300
TOTAL CELLS/ML	130	180	1000	610
DIVERSITY: DIVISION	0.0	0.0	1.4	0.4
.CLASS	0.0	0.0	1.4	0.4
..ORDER	0.5	0.8	1.9	0.5
...FAMILY	0.5	1.1	2.7	1.5
....GENUS	1.3	1.8	3.1	1.5

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...CHARACIACEAE								
....SCHROEDERIA	--	-	--	-	--	-	--	-
...MICRACTINIACEAE								
....GOLENKINIA	--	-	--	-	9	1	--	-
....MICRACTINIUM	--	-	--	-	320#	32	420#	69
...OOCYSTACEAE								
....ANKISTRODESMUS	--	-	--	-	37	4	66	11
....DICTYOSPHAERIUM	--	-	--	-	64	6	*	0
....KIRCHNERIELLA	--	-	--	-	--	-	--	-
....OOCYSTIS	--	-	--	-	--	-	--	-
....TETRAEDRON	--	-	--	-	*	0	--	-
...SCENEDESMACEAE								
....ACTINASTRUM	--	-	--	-	--	-	--	-
....CRUCIGENIA	--	-	--	-	--	-	*	0
....SCENEDESMUS	--	-	--	-	120	12	66	11
....TETRASTRUM	--	-	--	-	--	-	--	-
..ZYGNEMATALES								
...DESMIDIACEAE								
....COSMARIUM	--	-	--	-	--	-	--	-
....STAURASTRUM	--	-	--	-	--	-	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	40#	30	43#	24	27	3	19	3
....MELOSIRA	81#	60	97#	54	87	9	--	-
..PENNALES								
...CYMBELLACEAE								
....CYMBELLA	--	-	4	2	--	-	--	-
...FRAGILARIACEAE								
....SYNEDRA	--	-	--	-	9	1	--	-
...GOMPHONEMATACEAE								
....GOMPHONEMA	--	-	4	2	--	-	--	-
...NAVICULACEAE								
....NAVICULA	--	-	11	6	27	3	--	-
...NITZSCHIACEAE								
....NITZSCHIA	13	10	22	12	27	3	37	6
.CHRYSOPHYCEAE								
..CHRYSOMONADALES								
...OCHROMONADACEAE								
....DINOBRYON	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
.MYXOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCACEAE								
....AGMENELLUM	--	-	--	-	--	-	--	-
....ANACYSTIS	--	-	--	-	140	14	--	-
..OSCILLATORIALES								
...OSCILLATORIACEAE								
....LYNGBYA	--	-	--	-	18	2	--	-
....OSCILLATORIA	--	-	--	-	110	11	--	-
EUGLENOPHYTA (EUGLENOIDS)								
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....TRACHELOMONAS	--	-	--	-	--	-	--	-

02469762 TOMBIGBEE RIVER BELOW COFFEEVILLE LOCK AND DAM NEAR COFFEEVILLE, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE	MAY 13,77		JUN 7,77		JUL 20,77	
TIME	0945		1100		1500	
TOTAL CELLS/ML	400		1200		1800	
DIVERSITY: DIVISION	1.4		1.8		1.2	
.CLASS	1.4		1.8		1.2	
..ORDER	1.4		2.1		1.3	
...FAMILY	1.7		2.2		1.3	
....GENUS	2.6		2.8		1.6	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)						
.CHLOROPHYCEAE						
..CHLOROCOCCALES						
...CHARACIACEAE						
....SCHROEDERIA	--	-	--	-	*	0
...MICRACTINIACEAE						
....GOLENKINIA	--	-	--	-	--	-
....MICRACTINIUM	--	-	--	-	--	-
...OOCYSTACEAE						
....ANKISTRODESMUS	28	7	6	1	--	-
....DICTYOSPHAERIUM	--	-	--	-	--	-
....KIRCHNERIELLA	--	-	--	-	*	0
....OOCYSTIS	--	-	--	-	22	1
....TETRAEDRON	--	-	--	-	--	-
...SCENEDESMACEAE						
....ACTINASTRUM	99#	25	76	6	--	-
....CRUCIGENIA	--	-	--	-	--	-
....SCENEDESMUS	28	7	63	5	14	1
....TETRASTRUM	57	14	25	2	--	-
..ZYGNEMATALES						
...DESMIDIACEAE						
....COSMARIUM	--	-	--	-	*	0
....STAURASTRUM	--	-	6	1	--	-
CHRYSOPHYTA						
.BACILLARIOPHYCEAE						
..CENTRALES						
...COSCINODISCACEAE						
....CYCLOTELLA	85#	21	170	15	--	-
....MELOSIRA	28	7	310#	27	880#	48
..PENNALES						
...CYMBELLACEAE						
....CYMBELLA	--	-	--	-	--	-
...FRAGILARIACEAE						
....SYNEDRA	--	-	--	-	--	-
...GOMPHONEMATACEAE						
....GOMPHONEMA	--	-	--	-	--	-
...NAVICULACEAE						
....NAVICULA	--	-	19	2	--	-
...NITZSCHIACEAE						
....NITZSCHIA	--	-	6	1	--	-
.CHRYSOPHYCEAE						
..CHRYSOMONADALES						
...OCHROMONADACEAE						
....DINOBRYON	--	-	--	-	*	0
CYANOPHYTA (BLUE-GREEN ALGAE)						
.MYXOPHYCEAE						
..CHROOCOCCALES						
...CHROOCOCCACEAE						
....AGMENELLUM	--	-	--	-	170	9
....ANACYSTIS	--	-	310#	27	700#	38
..OSCILLATORIALES						
...OSCILLATORIACEAE						
....LYNGBYA	--	-	--	-	--	-
....OSCILLATORIA	71#	18	50	4	--	-
EUGLENOPHYTA (EUGLENOIDS)						
.EUGLENOPHYCEAE						
..EUGLENALES						
...EUGLENACEAE						
....TRACHELOMONAS	--	-	120	10	*	0

02469762 TOMBIGBEE RIVER BELOW COFFEEVILLE LOCK AND DAM NEAR COFFEEVILLE, AL--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	185	207	162	170	148	141	124	129	165	200	205	235
2	194	209	170	175	150	142	110	---	168	200	195	233
3	208	215	165	168	146	136	116	---	170	196	195	231
4	200	268	172	153	150	129	121	134	165	197	201	230
5	201	---	168	156	154	141	110	128	170	197	208	234
6	202	---	---	156	152	143	120	135	170	195	205	227
7	196	274	---	159	148	143	125	134	168	195	206	223
8	190	200	---	157	158	146	110	133	170	195	---	---
9	200	198	---	155	160	132	---	140	172	197	195	250
10	202	195	---	157	159	120	100	136	169	200	198	211
11	201	193	---	159	159	112	96	128	170	206	220	203
12	190	189	---	176	155	108	95	122	172	205	210	202
13	201	186	176	165	153	90	92	133	165	203	208	198
14	209	188	169	140	158	93	94	134	165	205	204	200
15	205	183	158	128	168	95	95	135	167	207	206	201
16	210	179	156	127	157	96	96	137	168	203	210	191
17	220	180	163	127	155	95	98	138	170	225	209	188
18	220	183	171	124	161	97	102	138	168	229	212	180
19	215	190	175	126	156	98	103	140	160	230	214	180
20	219	191	173	135	178	98	105	141	175	220	209	182
21	219	193	176	123	164	98	107	146	160	215	222	184
22	207	196	180	126	169	94	108	140	185	215	219	180
23	210	187	167	128	175	94	110	142	175	212	220	186
24	185	189	166	132	173	101	---	140	195	204	220	188
25	185	194	168	136	128	97	126	155	197	210	218	172
26	190	193	150	133	133	96	134	157	198	205	228	181
27	200	195	150	142	151	96	136	159	202	200	225	170
28	200	198	156	138	150	100	132	159	197	211	226	182
29	201	165	180	140	---	109	131	156	191	209	229	198
30	200	164	180	144	---	103	130	156	196	204	232	---
31	204	---	171	142	---	124	---	162	---	210	---	---

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26.0	18.0	12.0	8.5	6.0	12.0	19.0	20.5	28.0	31.0	30.0	30.0
2	25.0	18.0	11.5	8.0	7.5	13.0	19.0	---	28.0	31.0	29.0	30.0
3	26.0	18.0	10.5	8.0	8.0	13.0	19.5	---	28.0	31.0	29.5	30.0
4	26.0	18.0	11.0	7.0	8.0	13.0	19.0	22.0	28.0	31.0	29.5	30.0
5	26.0	---	11.0	7.0	8.0	13.0	18.0	22.0	28.0	31.0	29.0	30.0
6	25.5	---	---	7.0	8.0	13.0	18.0	22.0	28.5	31.0	29.0	30.0
7	25.0	18.0	---	7.0	9.0	13.0	18.0	22.0	28.0	31.0	29.0	29.5
8	24.5	17.0	---	7.0	7.0	12.0	18.0	22.0	28.0	31.5	---	---
9	24.0	17.0	---	7.0	7.5	13.0	---	24.0	28.0	31.5	30.5	30.0
10	24.0	17.0	---	7.0	7.0	13.0	18.0	24.0	29.0	31.0	30.5	29.0
11	24.0	17.0	---	7.0	8.0	13.5	18.5	24.0	30.0	31.0	30.5	29.0
12	24.0	16.5	---	7.0	9.0	14.0	18.5	24.0	29.0	31.0	30.0	29.0
13	24.0	16.0	10.0	7.0	10.0	14.0	18.5	24.5	29.0	31.0	30.0	29.0
14	24.0	15.5	10.0	7.0	9.0	15.0	18.5	24.5	29.5	32.0	30.0	29.0
15	24.0	15.0	10.0	7.0	9.0	15.0	19.0	24.5	29.5	31.0	30.0	29.0
16	23.5	14.5	10.0	7.0	9.0	16.0	20.0	24.5	30.0	31.0	30.0	29.0
17	23.0	14.5	10.0	7.0	9.0	16.0	20.0	24.5	30.0	31.0	30.0	28.5
18	22.5	14.5	10.0	6.0	10.0	16.0	20.0	25.0	30.0	31.0	30.0	28.0
19	22.0	14.0	10.0	5.5	10.0	16.0	20.0	25.0	29.0	31.0	30.0	28.0
20	21.0	14.5	11.0	5.0	10.0	16.0	20.0	25.5	30.0	31.0	30.0	28.0
21	21.0	14.5	10.0	6.0	10.5	17.0	20.0	26.0	30.0	30.5	30.0	28.0
22	21.0	14.0	10.0	6.0	11.0	17.0	20.0	25.0	31.0	31.0	30.0	29.0
23	22.0	13.0	9.5	6.0	11.0	17.0	20.0	26.0	31.0	31.0	30.5	28.0
24	21.0	13.5	10.0	6.0	11.0	16.0	---	26.0	30.0	31.0	31.0	27.0
25	21.0	14.0	10.0	6.0	13.0	16.0	20.0	26.0	30.5	31.0	31.0	28.0
26	20.0	14.0	10.0	7.0	17.0	17.0	20.5	26.5	30.5	31.0	31.0	28.0
27	20.0	13.5	9.0	7.5	14.0	17.0	20.5	27.0	31.0	30.5	31.0	28.0
28	20.0	13.0	9.0	7.0	13.0	16.0	0.0	27.0	31.0	31.0	31.0	28.0
29	20.0	13.0	9.0	7.0	---	17.0	20.5	27.5	31.0	31.0	31.0	28.0
30	20.0	12.5	9.0	6.0	---	18.0	20.5	28.0	31.0	30.0	31.0	---
31	19.0	---	8.5	6.0	---	18.0	---	28.0	---	30.0	---	---

02469800 SATILPA CREEK NEAR COFFEEVILLE, AL

LOCATION.--Lat 31°44'39", long 88°01'21", in SE¼ sec. 13, T. 9 N., R. 1 W., Clarke County, Hydrologic Unit 03160203, near left bank on downstream side of bridge on State Highway 12, 0.2 mi (0.3 km) upstream from unnamed tributary, 3 mi (5 km) downstream from Harris Creek, and 3.8 mi (6.1 km) east of Coffeeville.

DRAINAGE AREA.--166 mi^2 (430 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1956 to September 1970. Flood hydrograph and low flow, water years 1971-74. October 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 80 ft (24.4 m) from topographic map.

REMARKS.--Water-discharge records good.

AVERAGE DISCHARGE.--17 years (water years 1957-70, 1975-77),220 ft^3/s (6.230 m^3/s), 18.00 in/yr (457 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,600 ft^3/s (725 m^3/s) July 8, 1956, gage height, 18.37 ft (5.599 m); minimum, 4.8 ft^3/s (0.136 m^3/s) Oct. 21, 1963.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,600 ft^3/s (73.63 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 15	0700	2840	80.4	12.86	3.920	Mar. 13	0800	*12400	351	*14.80	4.511
Feb. 24	2100	7700	218	13.86	4.225	Apr. 2	0200	2920	82.7	12.88	3.926

Minimum discharge, 16 ft^3/s (0.453 m^3/s) Oct. 5, 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	46	249	201	294	680	1290	123	43	38	204	24
2	19	31	200	189	275	461	2360	160	41	28	80	22
3	19	27	171	533	323	386	824	430	37	26	50	21
4	17	25	149	780	533	1030	478	287	35	24	130	22
5	17	24	135	433	396	2100	652	192	34	22	267	28
6	25	23	127	345	304	1720	438	152	33	21	112	223
7	48	24	638	819	267	1470	343	129	31	20	63	589
8	35	23	554	515	246	742	304	120	30	19	49	214
9	27	23	269	535	236	519	271	153	29	19	37	114
10	24	24	210	1770	225	482	240	136	28	59	44	78
11	23	25	514	1170	215	525	219	100	27	70	75	68
12	20	36	1950	494	210	1730	202	88	26	144	98	57
13	19	54	1790	406	210	9850	191	81	26	58	52	70
14	18	83	708	1140	195	2720	179	74	25	35	35	70
15	18	354	526	2420	182	922	166	69	25	54	29	60
16	18	156	418	1040	171	652	154	64	25	38	26	167
17	20	88	323	509	167	540	142	59	25	29	119	287
18	22	68	273	441	168	480	133	55	32	26	78	156
19	21	60	244	393	168	430	129	52	33	24	274	112
20	19	108	311	367	161	402	127	49	38	23	255	202
21	18	137	375	378	151	380	127	47	31	24	137	116
22	18	86	262	329	148	364	408	85	29	21	81	75
23	18	65	237	302	318	307	1630	216	26	19	57	56
24	18	56	218	472	4300	289	771	95	24	18	50	47
25	21	52	342	500	4600	280	304	61	23	18	65	44
26	35	58	998	346	1060	263	233	59	22	29	49	42
27	31	137	494	352	1160	250	193	59	22	29	44	63
28	24	790	348	371	1730	443	168	107	21	137	35	61
29	22	1490	286	289	---	680	150	68	21	120	32	47
30	39	448	242	257	---	476	136	51	25	84	29	41
31	72	---	226	268	---	400	---	45	---	76	27	---
TOTAL	766	4621	13787	18364	18413	31973	12962	3466	867	1352	2683	3176
MEAN	24.7	154	445	592	658	1031	432	112	28.9	43.6	86.5	106
MAX	72	1490	1950	2420	4600	9850	2360	430	43	144	274	589
MIN	17	23	127	189	148	250	127	45	21	18	26	21
CFSM	.15	.93	2.68	3.57	3.96	6.21	2.60	.68	.17	.26	.52	.64
IN.	.17	1.04	3.09	4.12	4.13	7.16	2.90	.78	.19	.30	.60	.71

CAL YR 1976 TOTAL 120400 MEAN 329 MAX 14400 MIN 17 CFSM 1.98 IN 26.98
WTR YR 1977 TOTAL 112430 MEAN 308 MAX 9850 MIN 17 CFSM 1.86 IN 25.19

02469800 SATILPA CREEK NEAR COFFEEVILLE, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses: October 1970 to June 1973, October 1976 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965, 1966, 1967, 1969, 1975, 1976.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)
NOV												
18...	63	103	7.1	9.0	11.0	46	13	16	1.5	2.2	.1	1.2
DEC												
15...	525	--	7.0	9.0	11.2	26	8	8.5	1.1	2.8	.2	.8
FEB												
01...	284	96	6.7	3.0	13.8	34	5	12	.9	2.5	.2	.6
MAR												
08...	686	79	6.4	10.0	11.2	28	2	9.7	.9	2.4	.2	.6
APR												
20...	121	130	7.5	18.5	7.7	55	3	20	1.1	2.2	.1	.6
JUN												
03...	37	167	7.4	22.0	8.1	73	0	27	1.3	2.4	.1	.8
JUL												
21...	23	160	7.1	25.0	7.8	63	0	23	1.3	2.8	.2	.8
SEP												
02...	22	150	7.2	24.0	6.2	72	7	26	1.7	2.8	.1	.4

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)
NOV											
18...	40	0	10	4.6	.1	14	70	11.9	.09	.42	1
DEC											
15...	22	0	8.6	2.6	.0	16	51	72.3	.05	.20	1
FEB											
01...	36	0	6.8	2.8	.0	14	58	44.5	.17	.77	1
MAR											
08...	32	0	6.0	2.6	.0	16	55	102	.06	.25	1
APR											
20...	64	0	4.2	3.2	.0	15	79	25.8	.08	.36	2
JUN											
03...	94	0	4.2	3.2	.0	12	97	9.69	.09	.40	1
JUL											
21...	80	0	6.0	3.8	.0	13	90	5.59	.01	.03	<1
SEP											
02...	79	0	2.4	3.6	.0	12	90	5.35	.21	.92	ND

DATE	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	CHLOR-A PERIPHYTON CHROMOGRAPHIC FLUOROM (MG/M2)	CHLOR-B PERIPHYTON CHROMOGRAPHIC FLUOROM (MG/M2)
NOV											
18...	<1	ND	<1	230	1	43	<.2	80	10	--	--
DEC											
15...	<1	<1	1	270	1	72	<.2	80	10	--	--
FEB											
01...	<1	ND	1	220	1	41	<.2	70	10	--	--
MAR											
08...	<1	ND	<1	180	1	49	ND	90	10	--	--
APR											
20...	<1	ND	<1	--	1	31	<.2	150	10	--	--
JUN											
03...	<1	ND	1	160	1	85	.2	130	30	--	--
JUL											
21...	<1	ND	1	390	1	87	ND	150	10	.012	.059
SEP											
02...	<1	<1	<1	490	1	120	ND	150	20	--	--

02471001 CHICKASAW CREEK NEAR KUSHLA, AL

LOCATION.--Lat 30°48'10", long 88°08'36", in NE¼ sec. 11, T. 3 S., R. 2 W., Mobile County, Hydrologic Unit 03160204, on left bank at upstream side of highway bridge, 0.7 mi (1.1 km) upstream from Seabury Creek, 1.4 mi (2.3 km) southeast of Kushla, 7 mi (11 km) northwest of Mobile, and at mile 12.2 (19.6 km).

DRAINAGE AREA.--125 mi^2 (324 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1951 to current year. Prior to October 1968, published as "near Whistler."

REVISED RECORDS.--WSP 1434: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 3.85 ft (1.173 m) above mean sea level. Prior to Aug. 2, 1964, water-stage recorder, Aug. 3, 1964, to Dec. 9, 1965, nonrecording gage, and Dec. 10, 1965, to September 1968, water-stage recorder at site 1.4 mi (2.3 km) upstream at different datum.

REMARKS.--Water-discharge record fair.

AVERAGE DISCHARGE.--26 years, 266 ft^3/s (7.533 m^3/s), 28.90 in/yr (734 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 42,000 ft^3/s (1,190 m^3/s) Apr. 13, 1955, gage height, 25.4 ft (7.74 m), from floodmarks, site and datum then in use, from rating curve extended about 10,600 ft^3/s, (300 m^3/s) on basis of slope-area measurement of peak flow; minimum, 18 ft^3/s (0.51 m^3/s) Sept. 3, 4, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,500 ft^3/s (42.5 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Nov. 29	1800	1530	43.3	11.96	3.645	Apr. 1	0500	*3020	85.5	*14.96	4.560

Minimum discharge, 57 ft^3/s (1.61 m^3/s) July 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	161	435	164	239	305	2290	132	310	59	132	153
2	73	104	284	156	226	213	826	224	472	58	151	125
3	69	87	227	329	252	185	528	727	366	67	312	108
4	66	79	196	395	392	546	412	810	191	142	238	117
5	61	75	176	284	314	877	405	484	132	99	302	183
6	160	73	162	223	237	592	376	282	110	76	291	384
7	202	73	261	368	201	431	293	220	98	64	193	771
8	134	73	358	345	186	340	254	188	89	68	133	442
9	97	72	248	265	176	271	228	221	83	106	128	210
10	82	71	189	362	169	258	204	216	81	107	124	172
11	75	73	277	335	161	289	187	170	80	129	137	274
12	68	75	515	243	158	362	174	148	77	96	168	224
13	66	80	478	212	157	551	164	138	74	80	174	220
14	65	82	358	760	151	438	156	127	81	71	119	258
15	64	113	312	1120	143	286	149	119	81	67	99	250
16	63	125	286	652	137	253	144	114	79	83	91	361
17	115	109	229	384	134	231	138	110	96	124	107	776
18	169	118	193	314	134	205	132	106	88	83	146	629
19	111	111	174	279	134	195	130	101	77	71	575	350
20	86	150	202	251	138	204	127	98	139	76	502	436
21	76	175	255	239	132	236	129	93	177	89	289	363
22	71	129	202	224	123	231	588	109	108	87	244	228
23	69	102	174	210	132	269	925	194	85	71	373	181
24	68	93	163	229	485	188	511	131	85	64	327	162
25	69	88	176	249	445	176	268	106	84	61	328	147
26	71	97	401	213	246	170	206	99	75	101	252	138
27	70	252	359	228	306	159	176	109	69	123	182	133
28	68	714	238	253	447	226	157	139	64	130	153	130
29	68	1390	196	206	---	456	148	152	63	113	145	138
30	146	947	174	181	---	438	138	117	62	119	151	151
31	240	---	166	194	---	1260	---	112	---	112	171	---
TOTAL	2919	5891	8064	9867	6155	10841	10563	6096	3676	2796	6737	8214
MEAN	94.2	196	260	318	220	350	352	197	123	90.2	217	274
MAX	240	1390	515	1120	485	1260	2290	810	472	142	575	776
MIN	61	71	162	156	123	159	127	93	62	58	91	108
CFSM	.75	1.57	2.08	2.54	1.76	2.80	2.82	1.58	.98	.72	1.74	2.19
IN.	.87	1.75	2.40	2.94	1.83	3.23	3.14	1.81	1.09	.83	2.00	2.44

CAL YR 1976 TOTAL 72861 MEAN 199 MAX 1390 MIN 58 CFSM 1.59 IN 21.68
WTR YR 1977 TOTAL 81819 MEAN 224 MAX 2290 MIN 58 CFSM 1.79 IN 24.35

02471001 CHICKASAW CREEK NEAR KUSHLA, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1970 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water years 1964, 1965, 1966, 1967, and 1969 as Chickasaw Creek near Whistler.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
MAR											
23...	335	27	5.6	15.0	9.2	6	3	1.5	.5	3.5	.6
SEP											
01...	135	--	5.2	24.0	8.1	6	4	1.0	.7	1.6	.3

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)
MAR											
23...	.5	4	0	3.2	4.6	.0	5.6	23	20.8	.34	1.5
SEP											
01...	.2	2	0	1.4	2.2	.0	8.6	21	7.65	.78	3.5

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
MAR										
23...	<1	1	1	1	330	1	32	.2	40	10
SEP										
01...	1	<1	<1	<1	330	ND	24	.3	110	30

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT			
05...	57	20	21.0
DEC			
09...	255	39	8.0
JAN			
26...	202	29	7.0
MAR			
09...	261	28	12.0

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
APR			
20...	126	76	19.5
JUN			
02...	504	35	23.0
JUL			
14...	73	29	25.0
AUG			
26...	255	--	25.0

RESERVOIRS IN MOBILE RIVER BASIN

02393500 ALLATOONA RESERVOIR.--Lat 34°09'46", long 84°43'40", Bartow County, Ba.; at forebay of dam on Etowah River, 2.8 mi (4.5 km) upstream from Nashville, Chattanooga & St. Louis Railway bridge, 4 mi (6 km) east of Cartersville, Ga. and 6 mi (10 km) upstream from Pumpkinvine Creek. DRAINAGE AREA, 1,110 mi^2 (2,870 km^2), approximately. PERIOD OF RECORD, December 1949 to current year. GAGE, water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

Reservoir is formed by concrete gravity dam. Spillway (crest elevation, 835.0 ft or 254.51 m) is equipped with nine taintor gates 40 ft (12.2 m) wide by 25 ft (7.6 m) high, and two taintor gates 20 ft (6.1 m) wide by 25 ft (7.6 m) high. There are four sluices 5.67 ft (1.728 m) wide by 10 ft (3.0 m) high and one sluice 4 ft (1.2 m) in diameter. Storage began Dec. 27, 1949; water in reservoir first reached minimum pool elevation Feb. 5, 1950. Total capacity at elevation 860.0 ft or 262.13 m (top of gates is 670,000 acre-ft (826 hm^3), of which 587,100 acre-ft (724 hm^3) is controlled storage above elevation 800.0 ft or 243.84 m (minimum pool). Reservoir is used for flood control and power. Gage-height record and capacity table furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 693,800 acre-ft (855 hm^3) Apr. 10, 1964, elevation, 861.19 ft (262.491 m); minimum, 119,600 acre-ft (147 hm^3) Dec. 4, 1954, elevation, 809.34 ft (246.687 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 623,600 acre-ft (769 hm^3) Apr. 11, elevation, 857.50 ft (261.366 m); minimum, 211,400 acre-ft (261 hm^3) Jan. 21, elevation, 824.12 ft (251.192 m).

02399499 WEISS RESERVOIR.--Lat 34°10'19", long 85°45'14", in SE¼ sec. 12, T. 10 S., R. 8 E., Cherokee County, Hydrologic Unit 03150105, about 75 ft (23 m) upstream from centerline of left end of Weiss Dam on Coosa River on U.S. Highway 411, 1.2 mi (1.9 km) east of Leesburg, 4 mi (6 km) upstream from Yellow Creek, and at mile 226.1 (363.80 km). DRAINAGE AREA, 5,270 mi^2 (13.650 km^2), approximately. PERIOD OF RECORD, March 1961 to current year. GAGE, water-stage recorder with remote indicating gages, referenced to a vertical staff gage. Datum of gage is at mean sea level.

Reservoir is formed by a compacted earth dam with a concrete gated spillway section. Spillway is equipped with five radial gates 40 ft (12.2 m) wide by 38 ft (11.6 m) high. Storage began Mar. 28, 1961. Total capacity at elevation 564 ft (171.9 m) is 360,400 acre-ft (444 hm^3). Reservoir is used for power development and flood control. Gage-height record and capacity table furnished by Alabama Power Co.

EXTREMES FOR PERIOD OF RECORD: Maximum daily contents, 484,300 acre-ft (597 hm^3) Apr. 15, 1964, elevation, 569.11 ft (173.465 m); minimum daily contents, 127,200 acre-ft (157 hm^3) Jan. 1, 1970, elevation, 556.31 ft (169.563 m).

EXTREMES FOR CURRENT YEAR: Maximum daily contents, 559,100 acre-ft (689 hm^3) Apr. 8, elevation, 570.91 ft (174.013 m); minimum daily contents, 141,200 acre-ft (174 hm^3) Jan. 10, elevation, 557.11 ft (169.807 m).

02401620 H. NEELY HENRY RESERVOIR.--Lat 33°47'02", long 86°03'10", in N½ sec. 31, T. 14 S., R. 6 E., Calhoun County, Hydrologic Unit 03150106, at forebay of Henry Dam on Coosa River, near Ohatchee, and 16 mi (26 km) south of Gadsden. DRAINAGE AREA, 6,590 mi^2 (17,070 km^2) (determined by Corps of Engineers). PERIOD OF RECORD, April 1966 to current year. GAGE, water-stage recorder. Datum of gage is at mean sea level (levels by Alabama Power Co.).

Reservoir is formed by a compacted earth dam with a concrete gated spillway section. Spillway is equipped with six radial gates 40 ft (12.2 m) wide by 29 ft (8.8 m) high. Storage began Feb. 23, 1966. Total capacity at elevation 508 ft (154.84 m) is 120,850 acre-ft (149 hm^3). Reservoir is used for power development and flood control. Gage-height record and capacity table furnished by Alabama Power Co.

EXTREMES FOR PERIOD OF RECORD: Maximum daily contents, 126,800 acre-ft (156 hm^3) Oct. 19, 1966, elevation, 499.88 ft (152.363 m); minimum daily contents, 51,890 acre-ft (64.0 hm^3) Apr. 2, 1966, elevation, 499.88 ft (152.363 m).

EXTREMES FOR CURRENT YEAR: Maximum daily contents, 120,200 acre-ft (148 hm^3) May 29, elevation, 507.94 ft (154.820 m); minimum daily contents, 69,000 acre-ft (85.1 hm^3) Apr. 5, elevation, 502.40 ft (153.132 m).

02405200 LOGAN MARTIN RESERVOIR.--Lat 33°24'33", long 86°20'17", in NW¼ sec. 33, T. 18 S., R. 3 E., St. Clair County, Hydrologic Unit 03150106, at Logan Martin Dam on Coosa River, 2 mi (3 km) upstream from Kelly Creek, and 10 mi (16 km) north of Childersburg, Ala. DRAINAGE AREA, 7,770 mi^2 (20,124 km^2), approximately. PERIOD OF RECORD, July 1964 to current year. GAGE, water-stage recorder. Datum of gage is mean sea level.

Reservoir is formed by a compacted earth dam with gated concrete spillway section. Spillway is equipped with six taintor gates 40 ft (12.2 m) wide by 38 ft (11.6 m) high and one stoney-type trash gage 20 ft (6.1 m) wide by 22.5 ft (6.86 m) high. Storage began June 21, 1964. Total capacity at elevation 465 ft (141.7 m) (top of power pool) is 273,300 acre-ft (337 hm^3), of which 142,107 acre-ft (175 hm^3) is usable storage above elevation 452.5 ft (137.92 m) (minimum pool). Reservoir is used for power development and flood control. Gage-height record and capacity tables furnished by Alabama Power Co.

EXTREMES FOR PERIOD OF RECORD: Maximum daily contents, 475,800 acre-ft (587 hm^3) Apr. 6, 1977, elevation, 475.31 ft (145.874 m); minimum daily contents, 186,100 acre-ft (229 hm^3) Oct. 17, 1972, elevation, 458.27 ft (139.681 m).

EXTREMES FOR CURRENT YEAR: Maximum daily contents, 475,800 acre-ft (587 hm^3) Apr. 6, elevation, 475.31 ft (145.874 m); minimum daily, 192,200 acre-ft (237 hm^3) Feb. 11, elevation, 458.82 ft (139.848 m).

02407950 LAY LAKE.--Lat 32°57'54", long 86°31'03", in NE¼ sec. 24, T. 23 N., R. 15 E., Chilton County, Hydrologic Unit 03150107, at Lay Dam on Coosa River, 0.5 mi (0.8 km) upstream from Page Creek, and 11 mi (18 km) northeast of Clanton. DRAINAGE AREA, 9,090 mi^2 (23,540 km^2), approximately. GAGE, water-stage recorder with remote indicating gages. Prior to May 14, 1968, staff gage. Datum of gage is mean sea level, datum of 1929 (levels by Alabama Power Co.). Prior to Jan. 1, 1966, at old Coosa River datum, 37.9 ft (11.55 m) lower.

Reservoir is formed by a concrete gravity-type dam equipped with 26 radial gates 30 ft (9.1 m) wide by 17 ft (5.2 m) high. The pool was filled on Jan. 4, 1968. Total capacity at elevation 396.0 ft (120.70 m) (top of gates) is 262,774 acre-ft (324 hm^3), of which 117,780 acre-ft (145 hm^3) is controlled storage above elevation 382.0 ft (116.43 m) (minimum pool). Prior to May 14, 1968, reservoir was formed by a concrete gravity-type dam, completed April 1914. Dam was equipped with 26 vertical lift gates 30 ft (9.1 m) wide by 14 ft (4.3 m) high. Total capacity at elevation 382.0 ft (116.43 m) was 144,994 acre-ft (179 hm^3). Reservoir is used for power development. Gage-height record and capacity table furnished by Alabama Power Co.

RESERVOIRS IN MOBILE RIVER BASIN--Continued

02409400 MITCHELL LAKE.--Lat 32°48'30", long 86°26'30", in NE¼ sec. 15, T. 21 N., R. 16 E., Chilton County, Hydrologic Unit 03150107, at Mitchell Dam on Coosa River, 5 mi (8 km) downstream from Hatchet Creek, and 11 mi (18 km) southeast of Clanton, Ala. DRAINAGE AREA, 9,830 mi^2 (25,460 km^2), approximately. GAGE, staff gage. Datum of gage is mean sea level, datum of 1929 (levels by Alabama Power Co.). Prior to Jan. 1, 1966, at old Coosa River datum, 38.08 ft (11.607 m) lower.

Reservoir is formed by concrete gravity-type dam, completed August 1923, equipped with 26 radial gates 30 ft (9.1 m) wide and 15 ft (4.6 m) high. Total storage at elevation 311.9 ft (95.07 m) (top of power pool) is 172,000 acre-ft (212 hm^3), of which 33,300 acre-ft (41.1 hm^3) is usable storage above elevation 305.9 ft (93.24 m). Reservoir is used for power development. Gage-height record and capacity table furnished by Alabama Power Co.

02410400 JORDAN LAKE.--Lat 32°37'07", long 86°15'19", in N½ sec. 22, T. 19 N., R. 18 E., Elmore County, Hydrologic Unit 03150107, at Jordan Dam on Coosa River, 4 mi (6 km) upstream from Pigeonroost Creek, and 5 mi (8 km) northwest of Wetumpka, Ala. DRAINAGE AREA, 10,200 mi^2 (26,400 km^2), approximately. GAGE, water-stage recorder with remote indicating gages. Prior to February 1967, staff gage. Datum of gage is at mean sea level (levels by Alabama Power Co.). Prior to Jan. 1, 1966, at old Coosa River datum, 38.0 ft (11.58 m) lower.

Reservoir, completed January 1929, is formed by a concrete arch-type dam equipped with 17 taintor gates 30 ft (9.1 m) wide by 18 ft (5.5 m) high and 18 taintor gates 34 ft (10.4 m) wide and 8.1 ft (2.47 m) high. Prior to Mar. 25, 1967, the dam was equipped with 17 radial gates 30 ft (9.1 m) wide by 18 ft (5.5 m) high and 642 ft (195.7 m) open-crest spillway.

Bouldin Hydro Plant (completed February 1967, failed Feb. 9, 1975).--Lat 32°34'58", long 86°17'02", in SE¼ sec. 32, T. 19 N., R. 18 E., Elmore County, also utilizes the water from Jordan Reservoir through a canal approximately 1 mi (2 km) north of Jordan Dam joining the Bouldin Hydro Plant forebay with Jordan Reservoir. The discharge from Bouldin Hydro Plant flows through a 4.5 mi (7.2 km) canal to the Coosa River at approximately 7 mi (11 km) downstream from Wetumpka. There are no facilities at Bouldin Hydro Plant for releasing hydraulic flows in excess of generating capabilities of Jordan and Bouldin Hydro Plants. Total storage at elevation 252.0 ft (76.81 m) is 236,200 acre-ft (291 hm^3), of which 58,000 acre-ft (71.5 hm^3) is usable storage above elevation 242.0 ft (73.76 m). Reservoir is used for power development. Gage-height record and storage tables furnished by Alabama Power Co.

02417500 LAKE MARTIN.--Lat 32°40'41", long 85°54'30", in sec. 36, T. 20 N., R. 21 E., Tallapoosa County, Hydrologic Unit 03150109, at forebay of Martin Dam on Tallapoosa River, 5 mi (8 km) upstream from Sougahatchee Creek, and 10 mi (16 km) north of Tallassee, Ala. DRAINAGE AREA, 3,000 mi^2 (7,800 km^2), approximately. PERIOD OF RECORD, October 1927 to current year. GAGE, remote indicating gage referenced to wire-weight gage. Datum of gage is at mean sea level (levels by Alabama Power Co.), adjustment unknown.

Lake is formed by a combination arch and gravity concrete dam with a riprap earth embankment on left or east end. Spillway is equipped with 20 modified stoney-type gates, 30 ft (9.1 m) wide and 16 ft (4.9 m) high. Storage began in the summer of 1926, and the powerhouse was completed in the summer of 1927. Total capacity at elevation 490.00 ft (149.352 m) (top of gates) is 1,622,000 acre-ft (2000 hm^3), of which 1,375,000 acre-ft (1,700 hm^3) is controlled storage above elevation 430.00 ft (131.064 m) (minimum pool). Lake is used for power development. Gage-height record and capacity table furnished by Alabama Power Co.

EXTREMES FOR PERIOD OF RECORD: Maximum daily contents since Oct. 1, 1940, 1,645,700 acre-ft (2,030 hm^3) Dec. 18, 20, 1961, elevation, 490.61 ft (149.538 m); minimum daily, 555,000 acre-ft (684 hm^3) June 29, 1941, elevation, 452.12 ft (137.806 m).

EXTREMES FOR CURRENT YEAR: Maximum daily contents, 1,630,600 acre-ft (2,010 hm^3) Mar. 31, elevation, 490.22 ft (149.419 m); minimum daily, 1,175,700 acre-ft (1,450 hm^3) Feb. 9, elevation, 477.38 ft (145.505 m).

02451950 LEWIS SMITH RESERVOIR.--Lat 33°56'26", long 87°06'28", in W½ sec. 6, T. 13 S., R. 5 W., Walker County, Hydrologic Unit 03160110, at forebay of Lewis Smith Dam on Sipsey Fork of Mulberry Fork of Black Warrior River, 1.2 mi (1.9 km) downstream from Ryan Creek, 2.5 mi (4.0 km) upstream from Mill Creek, 2.5 mi (4.0 km) upstream from State Highway 69, about 14 mi (22.5 km) northwest of Jasper, and at mile 13.5 (21.7 km). DRAINAGE AREA, 944 mi^2 (2,445 km^2). PERIOD OF RECORD, October 1960 to current year. GAGE, water-stage recorder with remote indicating gages. Datum of gage is at mean sea level (levels by Alabama Power Co.), adjustment unknown.

Reservoir is formed by an earth and rock-fill dam 300 ft (91.4 m) high and 2,200 ft (671 m) long with fixed crest spillway 956 ft (291.4 m) long. Storage began Oct. 3, 1960. Capacity at elevation 522 ft (159.1 m) (crest of spillway) is 1,670,700 acre-ft (2,060 hm^3). Storage of 394,000 acre-ft (486 hm^3) is provided between elevations of 488 ft (148.7 m) and 510 ft (155.4 m) for power generation. Approximately 281,000 acre-ft (346 hm^3) of storage for flood control is provided between elevations of 510 ft (155.4 m) and 522 ft (159.1 m). Reservoir is used for power development and flood control. Gage-height record and capacity table furnished by the Alabama Power Co.

EXTREMES FOR PERIOD OF RECORD: Maximum daily contents, 1,649,500 acre-ft (2,030 hm^3) Mar. 19, 1973, elevation, 521.17 ft (158.853 m); minimum daily since reservoir was filled to elevation 510.00 ft (155.448 m) operating pool (Jan. 6, 1962), 1,008,400 acre-ft (1,240 hm^3) Dec. 2, 1971, elevation, 488.84 ft (148.998 m).

EXTREMES FOR CURRENT YEAR: Maximum daily contents, 1,566,500 acre-ft (1,931 hm^3) Apr. 7, elevation, 417.81 ft (157,828 m); minimum daily, 1,078,000 acre-ft (1,329 hm^3) Dec. 10, elevation 493.26 ft (150.346 m).

RESERVOIRS IN MOBILE RIVER BASIN--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

Date	Elevation (feet)	Contents (acre-ft)	Change in contents (acre-ft)	Elevation (feet)	Contents (acre-ft)	Change in contents (acre-ft)
	02393500 ALLATOONA RESERVOIR			02399499 WEISS RESERVOIR		
Sept. 30	832.86	289,500	.....	562.02	250,500	.....
Oct. 31	831.12	272,400	- 17,100	561.24	230,400	- 20,100
Nov. 30	826.28	229,000	- 43,400	559.56	190,700	- 39,700
Dec. 31	825.44	222,000	- 7,000	557.96	157,300	- 33,400
CAL YR 1976	.....	.....	+ 12,700	.....	.....	+ 27,500
Jan. 31	826.03	226,900	+ 4,900	559.54	190,200	+ 32,900
Feb. 28	830.09	262,200	+ 35,300	560.96	223,400	+ 33,200
Mar. 31	847.55	465,200	+ 203,000	564.25	313,900	+ 90,500
Apr. 30	846.52	450,900	- 14,300	563.86	302,200	- 11,700
May 31	841.24	382,400	- 68,500	563.74	298,600	- 3,600
June 30	840.13	369,000	- 13,400	563.10	280,100	- 18,500
July 31	837.83	342,400	- 26,600	563.76	299,200	+ 19,100
Aug. 31	835.05	312,000	- 30,400	563.02	277,500	- 21,700
Sept. 30	833.04	291,300	- 20,700	562.30	258,000	- 19,500
WTR YR 1977	.....	.....	+ 1,800	.....	.....	+ 7,500
	02401620 H. NEELY HENRY RESERVOIR			02405200 LOGAN MARTIN RESERVOIR		
Sept. 30	507.50	115,300	.....	463.92	257,300	.....
Oct. 31	507.29	113,100	- 2,200	461.55	225,000	- 32,300
Nov. 30	504.31	84,400	- 28,700	461.05	218,600	- 6,400
Dec. 31	504.33	84,500	+ 100	459.54	200,400	- 18,200
CAL YR 1976	.....	.....	- 6,000	.....	.....	- 8,600
Jan. 31	504.74	88,100	+ 3,600	459.85	204,000	+ 3,600
Feb. 28	504.47	85,700	- 2,400	460.00	205,800	+ 1,800
Mar. 31	502.53	70,000	- 15,700	468.20	326,200	+ 120,400
Apr. 30	506.69	106,800	+ 36,800	463.60	252,700	- 73,500
May 31	507.66	117,100	+ 10,300	464.58	267,000	+ 14,300
June 30	507.18	111,900	- 5,200	463.95	257,800	- 9,200
July 31	507.90	119,700	+ 7,800	464.36	263,800	+ 6,000
Aug. 31	507.50	115,300	- 4,400	464.46	265,200	+ 1,400
Sept. 30	507.22	112,300	- 3,000	464.95	272,600	+ 7,400
WTR YR 1977	.....	.....	- 3,000	.....	.....	+ 15,300
	COMBINED LAY, MITCHELL, AND JORDAN LAKES			02417500 LAKE MARTIN		
Sept. 30	.....	628,700	.....	484.15	1,405,300	.....
Oct. 31	.....	648,600	+ 19,900	483.58	1,385,000	- 20,300
Nov. 30	.....	654,400	+ 5,800	481.39	1,308,700	- 76,300
Dec. 31	.....	650,700	- 3,700	479.48	1,244,000	- 64,700
CAL YR 1976	.....	.....	+ 7,800	.....	.....	- 20,600
Jan. 31	.....	641,800	- 8,900	478.18	1,201,300	- 42,700
Feb. 28	.....	655,800	+ 14,000	480.33	1,272,400	+ 71,100
Mar. 31	.....	654,100	- 1,700	490.22	1,630,600	+ 358,200
Apr. 30	.....	651,700	- 2,400	489.06	1,586,000	- 44,600
May 31	.....	655,200	+ 3,500	489.86	1,616,600	+ 30,600
June 30	.....	645,000	- 10,200	486.66	1,496,300	- 120,300
July 31	.....	643,000	- 2,000	486.41	1,487,100	- 9,200
Aug. 31	.....	646,600	+ 3,600	484.57	1,420,300	- 66,800
Sept. 30	.....	639,600	- 7,000	484.43	1,415,300	- 5,000
WTR YR 1977	.....	.....	+ 10,900	.....	.....	+ 10,000
	02451950 LEWIS SMITH RESERVOIR					
Sept. 30	497.50	1,149,500	.....			
Oct. 31	495.60	1,116,900	- 32,600			
Nov. 30	493.85	1,087,700	- 29,200			
Dec. 31	496.79	1,137,200	+ 49,500			
CAL YR 1976	.....	.....	+ 200			
Jan. 31	499.82	1,190,600	+ 53,400			
Feb. 28	504.97	1,287,400	+ 96,800			
Mar. 31	511.25	1,416,800	+ 129,400			
Apr. 30	509.83	1,386,400	- 30,400			
May 31	508.20	1,352,400	- 34,000			
June 30	503.38	1,256,700	- 95,700			
July 31	499.40	1,183,000	- 73,700			
Aug. 31	494.42	1,097,100	- 85,900			
Sept. 30	494.06	1,091,200	- 5,900			
WTR YR 1977	.....	.....	- 58,300			

02471065 MONTLIMAR CREEK AT U.S. HIGHWAY 90, AT MOBILE, AL

LOCATION.--Lat 30°38'59", long 88°07'34", in SE¼ sec. 39, T. 4 S., R. 2 W., Mobile County, Hydrologic Unit 03160205, on downstream side of downstream service road bridge of U.S. Highway 90, 0.1 mi (0.2 km) west of intersection of Interstate Highway 65 in Mobile.

DRAINAGE AREA.--8.57 mi^2 (22.20 km^2). Prior to December 1968 drainage area was 8.26 mi^2 (21.39 km^2). Drainage area was increased by channelization.

PERIOD OF RECORD.--May 1962 to September 1967, October 1974 to current year.

GAGE.--Water-stage recorder and sheet-piling weir control. Datum of gage is 20.04 ft (6.108 m) above mean sea level. Prior to Aug. 18, 1971, gage located 100 ft (30 m) upstream at same datum.

REMARKS.--Records fair above 20 ft^3/s (0.566 m^3/s) and poor below. Records of specific conductance and water temperature for the water year 1977 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--8 years (water years 1963-67, 1975-77), 19.8 ft^3/s (0.561 m^3/s), 31.37 in/yr (797 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,000 ft^3/s (113 m^3/s) Apr. 27, 1964, gage height, 8.60 ft (2.621 m); minimum, 3.7 ft^3/s (0.105 m^3/s) May 22, 1962, and Oct. 11, 12, 29, 30, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 700 ft^3/s (19.8 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Oct. 6	0600	966	27.4	5.35	1.631	Aug. 21	1745	2530	71.6	7.86	2.396
Oct. 30	0615	1110	31.4	5.72	1.743	Aug. 24	1330	1950	55.2	7.24	2.207
Jan. 14	0515	1450	41.1	6.51	1.984	Sept.16	1415	*3420	96.9	*8.58	2.615
Mar. 4	0430	946	26.8	5.27	1.606	Sept.28	1900	738	20.9	4.73	1.442

Minimum discharge, 6.3 ft^3/s (0.178 m^3/s) Oct. 21, 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	11	17	14	11	15	22	18	52	32	18	15
2	11	10	15	48	11	17	19	146	16	15	68	15
3	11	10	14	34	44	17	18	28	13	14	19	15
4	10	9.2	15	17	15	100	19	19	14	13	50	29
5	10	9.2	15	15	13	44	17	17	14	14	19	28
6	118	8.2	21	32	11	21	15	17	13	17	18	71
7	10	8.2	28	19	11	18	15	16	14	11	19	18
8	9.2	8.2	17	14	11	17	15	15	14	13	16	17
9	9.2	9.2	17	18	11	17	15	18	15	48	15	22
10	9.2	9.2	18	14	11	19	15	16	15	42	24	55
11	9.2	9.2	59	13	11	17	13	16	16	17	22	19
12	9.2	9.2	48	13	13	80	13	16	16	14	49	39
13	13	9.2	31	15	13	22	13	17	20	14	17	19
14	13	15	25	205	13	19	14	18	13	26	22	37
15	8.2	10	26	22	14	18	14	19	13	15	16	29
16	26	8.2	19	15	14	18	13	15	13	18	19	274
17	22	18	18	14	15	18	13	15	14	15	16	51
18	8.2	8.2	17	14	17	18	13	17	16	20	18	28
19	8.2	18	17	14	17	18	11	17	15	16	17	25
20	8.2	15	32	13	17	18	11	17	15	17	29	19
21	8.2	9.2	17	13	17	22	70	18	16	16	146	18
22	8.2	8.2	17	22	19	19	140	21	17	15	50	18
23	14	9.2	15	11	34	18	70	31	17	17	26	17
24	14	10	14	11	22	19	30	14	17	16	187	17
25	11	10	75	11	17	19	23	14	17	16	68	17
26	11	22	23	15	18	18	20	14	17	44	30	19
27	15	28	18	50	28	18	19	15	17	16	23	15
28	15	159	18	13	15	68	18	19	17	19	19	63
29	14	31	17	11	---	26	18	15	17	18	18	21
30	143	18	17	11	---	17	19	14	17	50	15	17
31	14	---	15	21	---	120	---	21	---	31	15	---
TOTAL	601.2	517.0	715	752	463	895	725	673	500	649	1088	1047
MEAN	19.4	17.2	23.1	24.3	16.5	28.9	24.2	21.7	16.7	20.9	35.1	34.9
MAX	143	159	75	205	44	120	140	146	52	50	187	274
MIN	8.2	8.2	14	11	11	15	11	14	13	11	15	15
CFSM	2.35	2.08	2.80	2.94	2.00	3.50	2.93	2.63	2.02	2.53	4.25	4.23
IN.	2.71	2.33	3.22	3.39	2.08	4.03	3.26	3.03	2.25	2.92	4.90	4.71

CAL YR 1976 TOTAL 6996.3 MEAN 19.1 MAX 175 MIN 7.8 CFSM 2.31 IN 31.51
WTR YR 1977 TOTAL 8625.2 MEAN 23.6 MAX 274 MIN 8.2 CFSM 2.86 IN 38.84

02479560 ESCATAWPA RIVER NEAR AGRICOLA, MS

LOCATION.--Lat 30°48'32", long 88°27'41", in SW¼ sec. 2, T. 3 S., R. 5 W., George County, MS, Hydrologic Unit 03170008, near left bank on downstream side of bridge on county road 612, 6.7 mi (10.8 km) west of Wilmer, AL, 2.5 mi (4.0 km) west of Alabama-Mississippi State line, 3.7 mi (6.0 km) east of Agricola, MS, and 4.8 mi (7.7 km) below old gage at Escatawpa River near Wilmer, AL.

DRAINAGE AREA.--556 mi^2 (1,440 km^2).

WATER-DISCHARGE RECORD

PERIOD OF RECORD.--August 1973 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 50 ft (15 m) from topographic map.

REMARKS.--Water-discharge record good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,900 ft^3/s (309 m^3/s) Apr. 12, 1975, gage height, 18.06 ft (5.505 m); minimum daily, 140 ft^3/s (3.96 m^3/s) Aug. 25, 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 1929 reached an elevation of 72.0 ft (21.95 m) ±1.0 ft (0.30 m), datum of 1929, as determined from historical data. Peak discharge of this flood is unknown but in all probability has not been exceeded since 1929.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 5,000 ft^3/s (142 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 15	2000	6190	175	15.64	4.767	Apr. 1	1000	*7860	223	*16.53	5.038

Minimum discharge, 149 ft^3/s (4.22 m^3/s) July 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	170	687	3730	924	828	3500	7640	415	451	157	854	389
2	170	517	2410	806	848	2940	6210	910	563	162	834	311
3	160	397	1760	1010	884	2170	4700	4300	445	266	728	261
4	160	321	1430	1430	1150	2480	3300	4560	337	239	697	245
5	160	283	1150	1520	1230	4110	2540	3140	261	203	1080	305
6	240	255	918	1390	1160	4640	2110	1820	225	201	1100	1880
7	400	234	1170	1740	1010	4650	1550	1230	207	182	932	4040
8	300	221	1780	1990	882	4440	1220	940	187	206	742	4260
9	230	210	1740	1860	781	3630	1020	1270	179	239	617	4010
10	190	206	1450	2180	700	2500	868	1120	173	283	483	3030
11	170	204	1590	2320	627	2180	740	868	169	231	433	1980
12	160	209	2200	2140	573	2480	642	682	164	227	441	1410
13	150	228	2240	1850	547	4670	575	563	159	248	405	1930
14	150	275	2310	2860	523	5520	529	489	161	233	339	1900
15	160	431	2310	4510	499	6060	497	439	161	270	279	1900
16	180	590	2210	4310	477	5600	469	413	168	569	291	1870
17	300	690	1950	3650	459	3830	445	395	281	632	481	2190
18	350	690	1660	2930	449	2180	423	367	264	409	337	2090
19	250	590	1300	2210	441	1550	413	343	203	299	433	1950
20	210	620	1170	1610	429	1550	439	315	371	327	610	1420
21	180	605	1150	1270	415	1290	459	283	377	347	672	1120
22	170	551	1030	1100	413	1840	770	267	263	311	742	898
23	170	489	924	966	415	2020	1870	285	196	245	935	758
24	170	433	826	929	1170	1320	1860	281	283	206	929	625
25	170	387	826	1030	3310	1020	1490	260	252	197	901	515
26	170	391	1540	1080	3590	884	1370	258	218	200	859	453
27	170	667	1680	1090	2800	798	1160	258	182	509	647	407
28	170	2230	1460	1050	3260	932	938	377	162	529	553	371
29	178	4490	1270	924	---	2290	702	329	158	377	459	439
30	419	4650	1150	823	---	2700	509	263	165	409	439	485
31	957	---	1040	786	---	5210	---	238	---	473	409	---
TOTAL	7184	22751	49374	54288	29870	90984	47458	27678	7385	9386	19661	43442
MEAN	232	758	1593	1751	1067	2935	1582	893	246	303	634	1448
MAX	957	4650	3730	4510	3590	6060	7640	4560	563	632	1100	4260
MIN	150	204	826	786	413	798	413	238	158	157	279	245
CFSM	.46	1.50	3.15	3.46	2.11	5.80	3.13	1.77	.49	.60	1.25	2.86
IN.	.53	1.67	3.63	3.99	2.20	6.69	3.49	2.03	.54	.69	1.45	3.19

CAL YR 1976 TOTAL 293724 MEAN 803 MAX 4650 MIN 140 CFSM 1.59 IN 21.59
WTR YR 1977 TOTAL 409461 MEAN 1122 MAX 7640 MIN 150 CFSM 2.22 IN 30.10

02479560 ESCATAWPA RIVER NEAR AGRICOLA, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1974 to current year.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
MAR											
23...	2030	25	5.0	15.5	10.0	5	4	1.2	.5	2.8	.5
SEP											
01...	315	--	5.1	25.0	7.2	5	3	.8	.6	2.8	.6

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)
MAR											
23...	.3	2	0	2.8	4.0	.0	5.9	23	126	.81	3.6
SEP											
01...	.2	2	0	3.8	3.8	.0	9.3	24	20.4	.21	.93

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
MAR										
23...	2	<1	1	1	390	1	31	.3	50	10
SEP										
01...	2	<1	ND	1	310	<1	64	ND	90	50

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT			
05...	143	45	21.0
JAN			
27...	1040	26	7.5
MAR			
10...	2360	25	12.0
APR			
21...	444	29	19.5

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
JUN			
03...	430	28	24.5
JUL			
13...	243	44	29.0
AUG			
25...	858	--	27.0

TENNESSEE RIVER MAIN STEM

03571850 TENNESSEE RIVER AT SOUTH PITTSBURG, TN
(National stream-quality accounting network station)

LOCATION.--Lat 35°00'41", long 85°41'51", Marion County, Hydrologic Unit 06030001, on right bank at South Pittsburg Ferry landing on Tennessee State Highway 156, 0.5 mi (0.8 km) downstream from Battle Creek, 0.5 mi (0.8 km) east of South Pittsburg, 4.6 mi (7.4 km) downstream from Sequatchie River, 6.5 mi (10.5 km) downstream from Nickajack Dam, and at mile 418.2 (672.9 km).

DRAINAGE AREA.--22,640 mi^2 (58,640 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1930 to current year. Published as "at Hales Bar, near Chattanooga, Tenn." July 1930 to July 1966.

REVISED RECORDS.--WSP 853: Drainage area. WSP 973: 1942. WSP 1306: 1936 (monthly runoff). WSP 1386: 1932-34.

GAGE.--Water-stage recorder. Datum of gage is 581.01 ft (177.092 m) above mean sea level. Prior to Feb. 13, 1932, at site 12.9 mi (20.8 m) upstream at datum 7.85 ft (2.393 m) higher. Feb. 13, 1932, to July 17, 1966, at site 11.5 mi (18.5 km) upstream at datum 7.50 ft (2.286 m) higher. Since Jan. 27, 1939, auxiliary water-stage recorder at site 10.6 mi (17.1 km) downstream.

REMARKS.--Records fair. Flow regulated since 1936 by increasing number of reservoirs above station (see Water Resources Data for adjoining states).

AVERAGE DISCHARGE.--47 years 37,400 ft^3/s (1,059 m^3/s), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 315,000 ft^3/s (8,920 m^3/s) Mar. 18, 1973, gage height, 34.33 ft (10.464 m); minimum daily, 2,900 ft^3/s (82.1 m^3/s) Nov. 1, 15, 1953; minimum gage height, 1.21 ft (0.369 m) Oct. 27, 1931, site and datum used 1932-65.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 44.6 ft (13.59 m) March 1867, site and datum used 1932-65. Flood of Mar. 8, 1917, reached a stage of 37.4 ft (11.40 m), site and datum used 1932-65, discharge, 320,000 ft^3/s (9,060 m^3/s), from rating curve extended above 225,000 ft^3/s (6,370 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 206,000 ft^3/s (5,830 m^3/s) at 2045 hours Apr. 5, gage height, 28.28 ft (8.620 m); minimum daily, 20,100 ft^3/s (569 m^3/s) Aug. 21; minimum gage height, 11.12 ft (3.389 m) Sept. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28600	44100	42900	49500	40000	40000	69400	36800	43100	37000	33300	32700
2	26100	44600	48100	50300	30700	34700	61100	38100	39000	33600	31800	31100
3	27100	45500	50600	50500	35300	36300	80000	44600	37500	29900	30400	26800
4	28700	44800	49500	50600	27600	26000	100000	43300	32100	31400	29200	25500
5	26000	41500	36300	50700	23800	25700	175000	39000	29600	27100	32600	26600
6	26500	40600	37500	52500	30000	33000	202000	38600	34000	30000	32100	30400
7	26500	40000	43400	53500	35000	41500	182000	34700	32300	41500	27500	43700
8	26300	39800	54700	53800	40000	37400	141000	33400	42100	44800	26700	60800
9	31200	35600	53200	62100	40000	37400	101000	37300	38400	33500	31700	47200
10	37100	37800	54400	71500	30000	36500	85600	38700	35800	30000	31500	47100
11	38300	38600	56200	72200	30000	39900	80000	37100	30900	29900	32800	28000
12	37200	35400	55000	68900	25000	47300	62900	34300	22600	35900	38000	29500
13	37300	36200	55400	65800	25000	85400	61000	36400	38800	36200	35500	29800
14	35600	37300	56500	68400	25000	84900	61500	31700	37900	36700	23800	35400
15	37900	37200	56600	61800	40000	80700	56800	25300	40300	39500	31000	51500
16	36200	36800	56600	47700	35000	71000	48700	37200	40800	41400	37500	55100
17	31200	36000	56600	52900	35000	60600	51900	37700	37500	38300	38300	57100
18	36200	37400	54800	52100	30000	53400	51000	35900	34700	32800	42600	55200
19	38400	32800	53700	51900	25000	43400	50900	38100	31700	34000	41300	51600
20	38600	28500	57000	51400	22000	37400	46400	38800	34100	36100	33100	51100
21	37700	28300	52500	49300	22000	34100	49300	34800	36800	40400	20100	44400
22	37500	28200	49700	49100	25000	39700	50400	31400	36900	33100	29900	41400
23	37200	34400	52000	39300	22000	46800	51900	37200	39700	35600	30300	38500
24	37200	34200	49900	37800	25000	48200	52100	34900	46100	29400	32000	30300
25	37400	26300	46900	40600	30000	42400	43600	36400	33000	34300	38100	26500
26	39600	27500	46900	48900	35000	39300	49500	42700	36400	36400	41000	34300
27	45400	29500	45700	39400	40000	30500	51100	38700	49000	37300	32900	43400
28	46300	23800	45100	37900	35000	31100	45900	35900	36200	38500	31500	42600
29	46500	43800	38400	50000	---	31100	46000	28200	33700	30000	34500	41100
30	46100	46200	37200	43300	---	46200	41800	30700	34100	33600	32600	40200
31	42800	---	37900	35200	---	68900	---	37600	---	33600	33500	---
TOTAL	1104700	1092700	1531200	1608900	858400	1410800	2249800	1125500	1095100	1081800	1017100	1198900
MEAN	35640	36420	49390	51900	30660	45510	74990	36310	36500	34900	32810	39960
MAX	46500	46200	57000	72200	40000	85400	202000	44600	49000	44800	42600	60800
MIN	26000	23800	36300	35200	22000	25700	41800	25300	22600	27100	20100	25500
CFSM	1.57	1.61	2.18	2.29	1.35	2.01	3.31	1.60	1.61	1.54	1.45	1.77
IN.	1.82	1.80	2.52	2.64	1.41	2.32	3.70	1.85	1.80	1.78	1.67	1.97

CAL YR 1976 TOTAL 14116100 MEAN 38570 MAX 77600 MIN 16200 CFSM 1.70 IN 23.19
WTR YR 1977 TOTAL 15374900 MEAN 42120 MAX 202000 MIN 20100 CFSM 1.86 IN 25.26

03572110 CROW CREEK AT BASS, AL

LOCATION.--Lat 34°56'03", long 85°55'03", in SE¼NE¼NW¼ sec. 20, T. 1 S., R. 7 E., Jackson County, Hydrologic Unit 06030001, on downstream side of bridge on Alabama Highway 117, 0.3 mi (0.5 km) northwest of Bass, 1 mi (1.6 km) upstream from Bennett Cove Creek, 3.7 mi (6.0 km) south of Alabama-Tennessee State line.

DRAINAGE AREA.--131 mi^2 (339 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 610 ft (186 m) above mean sea level from topographic map.

REMARKS.--Water-discharge records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,260 ft^3/s (206 m^3/s) Oct. 8, 1976, gage height, 16.47 ft (5.020 m); minimum, 6.6 ft^3/s (0.19 m^3/s) Sept. 17-20, 25, 26, 1976, gage height, 1.73 ft (0.527 m).

EXTREMES FOR CURRENT PERIOD.--Peak discharges above base of 3,200 ft^3/s (91 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 24	0530	4070	115	12.75	3.887	Mar. 12	2045	*7260	206	*16.47	5.018
Mar. 4	1130	3940	112	12.48	3.804	Apr. 5	0115	6260	177	15.57	4.746

Minimum discharge, 8.6 ft^3/s (0.24 m^3/s) July 23, gage height, 1.91 ft (0.585 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	107	168	208	180	457	475	318	46	14	9.3	9.3
2	17	75	130	168	160	357	409	212	38	15	9.3	9.6
3	15	60	107	157	150	363	2570	604	33	14	9.7	9.3
4	13	51	91	146	140	2720	5100	496	29	13	9.7	9.6
5	12	45	79	185	120	1520	5450	403	26	12	9.7	9.6
6	15	39	73	328	110	1270	5190	291	26	12	9.7	9.6
7	32	36	222	649	100	810	2820	295	25	11	9.7	765
8	44	32	208	398	95	550	750	371	23	11	9.7	758
9	26	31	140	1220	90	428	466	255	21	10	10	98
10	23	29	116	1700	85	352	341	194	20	10	10	53
11	22	29	104	664	80	341	286	157	19	9.7	9.6	39
12	18	27	264	439	130	3610	240	132	18	9.9	9.5	32
13	16	27	274	341	120	4530	205	116	17	9.6	9.2	35
14	15	26	196	392	110	1790	175	106	19	9.2	9.6	32
15	13	25	179	445	98	967	163	98	17	8.9	10	188
16	13	25	175	349	91	604	142	88	16	8.8	10	1060
17	13	24	144	310	87	422	130	81	19	10	12	521
18	11	23	123	290	85	368	118	76	60	12	18	188
19	11	23	107	270	83	308	111	119	33	10	18	194
20	12	23	722	270	79	288	104	88	26	9.1	15	237
21	12	23	505	350	75	264	98	79	28	8.7	13	111
22	11	22	315	300	72	237	183	82	24	9.0	12	71
23	12	21	245	270	90	210	829	92	20	8.8	10	54
24	16	21	190	260	2750	194	614	99	24	8.7	11	45
25	1120	20	313	320	829	183	428	84	24	9.9	12	48
26	490	22	556	280	484	173	328	166	20	9.6	10	203
27	148	54	344	230	1090	163	255	214	21	9.0	10	142
28	81	614	284	300	628	170	201	115	19	9.3	9.6	114
29	57	729	224	250	---	253	168	225	17	9.3	9.3	87
30	73	269	181	220	---	1240	210	181	15	9.9	9.3	185
31	196	---	258	200	---	711	---	66	---	9.3	9.6	---
TOTAL	2577	2552	7037	11909	8211	25853	28559	5903	743	320.7	333.5	5317.0
MEAN	83.1	85.1	227	384	293	834	952	190	24.8	10.3	10.8	177
MAX	1120	729	722	1700	2750	4530	5450	604	60	15	18	1060
MIN	11	20	73	146	72	163	98	66	15	8.7	9.2	9.3
CFSM	.64	.66	1.75	2.95	2.25	6.42	7.32	1.46	.19	.08	.08	1.36
IN.	.74	.73	2.01	3.41	2.35	7.40	8.17	1.69	.21	.09	.10	1.52

CAL YR 1976 TOTAL 74522.6 MEAN 204 MAX 3600 MIN 7.6 CFSM 1.57 IN 21.32
WTR YR 1977 TOTAL 99315.2 MEAN 272 MAX 5450 MIN 8.7 CFSM 2.09 IN 28.42

03572110 CROW CREEK AT BASS, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1976 to current year.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)
NOV												
18...	22	266	8.1	8.0	11.2	130	15	40	6.6	1.8	.1	.8
JAN												
05...	181	208	7.8	9.0	11.7	110	12	35	5.0	1.1	.0	.6
FEB												
15...	101	235	7.4	8.0	12.0	110	12	36	5.2	1.3	.1	.5
APR												
13...	170	200	7.6	16.0	10.4	100	10	34	4.2	1.1	.0	.7
MAY												
19...	115	212	7.6	19.5	9.5	88	6	29	3.7	1.1	.1	.7
JUL												
01...	14	285	8.0	27.5	6.8	120	6	39	5.7	1.8	.1	.9
AUG												
11...	9.2	248	8.2	31.0	--	120	14	34	7.7	2.1	.1	.9
SEP												
14...	30	289	8.0	24.0	8.5	130	14	41	6.4	1.5	.1	.5

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)
NOV											
18...	140	0	9.2	5.8	.1	1.9	137	8.14	.32	1.4	ND
JAN											
05...	120	0	10	1.6	.0	3.0	116	56.7	.21	.91	ND
FEB											
15...	120	0	11	3.8	.0	8.8	129	35.2	.70	3.1	1
APR											
13...	110	0	7.8	3.8	.1	5.3	112	51.4	.32	1.4	1
MAY											
19...	100	0	8.0	1.0	.1	2.1	97	30.1	.34	1.5	2
JUL											
01...	140	0	12	2.6	.0	3.1	135	5.14	.29	1.3	ND
AUG											
11...	130	0	1.4	3.3	.1	4.8	119	2.96	.19	.84	1
SEP											
14...	140	0	14	1.7	.1	3.7	141	11.4	.57	2.5	ND

DATE	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	CHLOR-A PERIPHYTON CHROMOGRAPHIC FLUOROM (MG/M2)	CHLOR-B PERIPHYTON CHROMOGRAPHIC FLUOROM (MG/M2)
NOV											
18...	<1	ND	<1	100	2	57	<.2	270	10	--	--
JAN											
05...	<1	ND	1	60	ND	35	ND	180	10	--	--
FEB											
15...	ND	ND	<1	1000	ND	31	<.2	190	10	--	--
APR											
13...	<1	ND	1	20	<1	38	<.2	150	30	--	--
MAY											
19...	<1	ND	1	40	ND	28	ND	200	40	.667	.185
JUL											
01...	<1	ND	ND	30	ND	18	.4	290	20	--	--
AUG											
11...	<1	1	1	120	ND	11	<.2	380	10	--	--
SEP											
14...	ND	ND	<1	ND	2	53	<.2	280	10	.168	.014

03572900 TOWN CREEK NEAR GERALDINE, AL

LOCATION.--Lat 34°22'42", long 85°59'25", in SE¼ sec. 34, T. 7 S., R. 6 E., DeKalb County, Hydrologic Unit 06030001, on downstream side of bridge on State Highway 75, 0.3 mi (0.5 km) downstream from Reedy Creek, 0.9 mi (1.4 km) upstream from Traylor Branch, 2 mi (3.2 km) north-northeast of Geraldine, 15 mi (24.1 km) northeast of Albertville, and at mile 20.4 (32.8 km).

DRAINAGE AREA.--141 mi^2 (365 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1957 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,000 ft (305 m) from topographic map.

REMARKS.--Water-discharge records good.

AVERAGE DISCHARGE.--20 years, 275 ft^3/s (7.788 m^3/s), 26.49 in/yr (673 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,700 ft^3/s (501 m^3/s) Apr. 29, 1963, gage height, 21.70 ft (6.614 m); no flow for many days in 1957, 1960, and 1963.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,000 ft^3/s (113 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 12	2145	7820	221	13.39	4.081	Apr. 5	0045	8040	228	13.63	4.154
Mar. 30	1430	*15300	433	*20.45	6.233						

Minimum discharge, 0.09 ft^3/s (0.003 m^3/s) Sept. 5, 6, gage height, 0.10 ft (0.030 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	28	109	378	159	619	1160	97	81	6.6	4.7	.54
2	10	29	89	307	150	491	851	88	63	4.0	2.3	.32
3	9.6	23	71	298	144	417	4850	84	51	3.1	1.6	.19
4	8.8	19	58	314	142	913	3590	94	42	2.7	1.3	.13
5	6.0	17	45	304	137	795	4760	86	34	2.7	2.1	.11
6	7.0	16	39	301	125	1570	1460	72	29	5.1	4.3	.09
7	7.8	15	95	533	114	1060	962	62	25	4.0	3.4	414
8	8.3	14	122	427	109	709	709	353	26	2.9	2.9	208
9	13	13	100	1050	105	553	549	139	23	2.1	8.9	79
10	17	13	82	1920	103	466	448	95	20	1.5	7.0	66
11	14	14	88	851	102	421	378	74	17	1.3	2.9	42
12	12	16	236	586	110	3680	320	66	15	.97	1.6	27
13	10	17	320	480	137	4210	279	57	14	.68	.95	20
14	9.1	21	236	628	123	1280	242	48	16	.68	.62	28
15	7.0	29	448	709	109	861	210	44	13	.52	1.5	42
16	5.8	30	452	509	98	654	185	40	13	.38	9.8	394
17	5.0	34	327	388	95	521	161	34	14	.33	8.3	337
18	4.2	29	262	362	95	448	142	31	20	.27	6.1	161
19	3.7	25	226	362	94	375	137	28	21	18	4.1	208
20	4.2	24	414	362	91	397	131	26	17	11	2.8	314
21	4.3	26	498	359	85	381	116	41	15	6.6	1.9	168
22	4.3	26	353	356	84	480	129	304	18	4.6	1.3	109
23	4.1	24	298	347	97	365	250	311	13	3.8	20	82
24	4.6	23	253	256	1390	314	236	135	12	2.9	35	69
25	8.3	21	388	298	723	276	157	135	11	2.1	7.9	261
26	18	21	815	253	487	245	131	195	11	2.9	3.9	2940
27	33	31	513	236	1530	228	116	234	18	1.9	2.8	1170
28	24	68	414	228	935	253	102	131	15	1.4	1.8	590
29	17	198	344	200	---	517	91	105	10	1.9	1.7	391
30	16	148	289	175	---	8830	86	365	8.8	2.5	1.1	411
31	19	---	434	173	---	4180	---	116	---	6.0	.79	---
TOTAL	328.1	1012	8418	13950	7673	36509	22938	3690	685.8	105.43	155.36	8532.38
MEAN	10.6	33.7	272	450	274	1178	765	119	22.9	3.40	5.01	284
MAX	33	198	815	1920	1530	8830	4850	365	81	18	35	2940
MIN	3.7	13	39	173	84	228	86	26	8.8	.27	.62	.09
CFSM	.08	.24	1.93	3.19	1.94	8.36	5.43	.84	.16	.02	.04	2.01
IN.	.09	.27	2.22	3.68	2.02	9.63	6.05	.97	.18	.03	.04	2.25

CAL YR 1976 TOTAL 93960.40 MEAN 257 MAX 5830 MIN 2.1 CFSM 1.82 IN 24.79
WTR YR 1977 TOTAL 103997.07 MEAN 285 MAX 8830 MIN .09 CFSM 2.02 IN 27.44

03572900 TOWN CREEK NEAR GERALDINE, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses: October 1970 to February 1972, October 1976 to current year.
WATER TEMPERATURES: April 1968 to September 1973.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 32.0°C June 27-30, 1969; minimum, 2.0°C on several days in 1968, 1969, and 1970.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965-68, 1973-76.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)
NOV												
19...	25	67	6.4	6.0	12.0	28	13	7.9	2.0	2.4	.2	3.0
JAN												
06...	292	66	6.5	5.5	12.0	20	15	5.0	1.8	1.9	.2	1.7
FEB												
16...	101	70	6.3	5.0	11.4	22	19	6.0	1.7	2.1	.2	1.5
APR												
12...	287	--	6.1	16.0	10.3	24	22	7.2	1.3	1.6	.1	1.6
MAY												
19...	30	66	7.8	23.5	9.6	17	0	4.4	1.4	2.1	.2	1.9
JUL												
01...	4.8	71	7.2	28.0	--	25	9	7.0	1.8	2.1	.2	3.5
AUG												
15...	1.4	63	7.5	28.0	8.6	18	0	3.6	2.1	2.5	.3	4.2
SEP												
14...	27	81	6.9	23.0	8.2	21	11	4.8	2.2	2.3	.2	2.8

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)
NOV											
19...	18	0	6.8	6.0	.1	2.5	41	2.77	.29	1.3	1
JAN											
06...	6	0	5.8	5.0	.0	3.5	39	30.7	2.5	11	ND
FEB											
16...	4	0	6.0	5.4	.0	10	46	12.5	2.3	10	ND
APR											
12...	3	0	5.6	3.6	.0	4.1	44	34.1	4.1	18	2
MAY											
19...	22	0	7.0	4.6	.1	.4	38	3.08	1.1	5.0	1
JUL											
01...	20	0	6.6	4.6	.0	.0	38	.49	.99	4.4	<1
AUG											
15...	24	0	2.4	4.4	.1	.2	32	.12	.04	.18	1
SEP											
14...	12	0	10	5.4	.1	3.2	47	3.43	2.2	9.7	ND

DATE	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	CHLOR-A PERIPHYTON CHROMOGRAPHIC FLUOROM (MG/M2)	CHLOR-B PERIPHYTON CHROMOGRAPHIC FLUOROM (MG/M2)
NOV											
19...	<1	ND	1	110	1	92	ND	40	10	--	--
JAN											
06...	ND	<1	1	40	ND	130	<.2	20	<5	--	--
FEB											
16...	ND	ND	<1	60	<1	43	<.2	50	10	--	--
APR											
12...	<1	ND	1	70	<1	42	ND	30	10	--	--
MAY											
19...	<1	ND	1	120	ND	4	<.2	70	20	1.29	.321
JUL											
01...	<1	ND	1	130	4	40	ND	60	20	--	--
AUG											
15...	1	ND	1	180	1	96	<.2	80	70	--	--
SEP											
14...	<1	ND	<1	140	3	80	<.2	30	20	.224	.039

03574500 PAINT ROCK RIVER NEAR WOODVILLE, AL

LOCATION.--Lat 34°37'27", long 86°18'23", in NW¼ sec. 10, T. 5 S., R. 3 E., Jackson County, Hydrologic Unit 06030002, on downstream side of bridge on U.S. Highway 72, 1,000 ft (305 m) downstream from Southern Railway bridge, 2 mi (3.2 km) west of Woodville, 4.1 mi (6.6 km) upstream from Little Paint Creek, and at mile 26.6 (42.8 km).

DRAINAGE AREA.--320 mi^2 (829 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1935 to current year.

GAGE.--Water-stage recorder. Datum of gage is 570.95 ft (174.026 m) above mean sea level. Dec. 23, 1935, to Jan. 16, 1938, nonrecording gage, Jan. 17, 1938, to July 24, 1940, water-stage recorder, at same site and datum. July 25, 1940, to Mar. 13, 1963, water-stage recorder at site 20 ft (6 m) downstream at same datum.

REMARKS.--Water-discharge records good.

AVERAGE DISCHARGE.--41 years, 681 ft^3/s (19.29 m^3/s), 28.98 in/yr (734 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 74,200 ft^3/s (2,100 m^3/s) Mar. 16, 1973, gage height, 24.40 ft (7.437 m); minimum, 1.3 ft^3/s (0.037 m^3/s) Oct. 21, 1954, gage height, 0.28 ft (0.085 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 6,000 ft^3/s (170 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 5	1700	6720	190	17.09	5.209	Apr. 5	1400	*11400	323	*18.60	5.669

Minimum daily discharge, 13 ft^3/s (0.37 m^3/s) Sept. 3-6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	121	717	1040	818	304	1770	1420	242	130	34	19	14
2	110	471	642	578	274	1030	1020	226	104	34	17	14
3	74	359	526	503	254	780	3520	204	85	32	17	13
4	48	293	434	474	246	3000	5620	356	75	32	16	13
5	25	240	368	494	240	5890	10100	294	67	32	16	13
6	16	203	323	618	220	4900	7510	241	62	31	15	13
7	30	176	343	1500	194	3490	3620	200	57	31	15	892
8	50	156	463	1410	175	2190	2040	253	54	30	15	2470
9	37	141	436	1730	166	1240	1240	386	51	31	15	1410
10	30	128	356	3590	160	949	791	244	50	29	16	298
11	25	120	324	3320	155	859	628	190	47	27	18	154
12	23	113	629	1580	157	3680	522	163	44	25	17	92
13	21	105	985	1070	224	12200	444	140	43	24	16	73
14	20	100	734	990	306	7080	393	125	43	24	18	58
15	19	96	621	1220	245	3530	449	112	46	23	84	196
16	18	94	562	974	211	1910	308	102	47	24	27	1510
17	17	91	489	695	190	1080	272	94	48	23	23	2890
18	18	85	419	587	181	798	242	86	86	22	36	2740
19	20	82	364	511	178	657	217	80	209	21	28	957
20	22	83	1110	431	170	574	196	83	150	21	35	858
21	25	82	2860	383	160	524	178	96	92	20	37	587
22	30	81	1840	331	152	477	187	91	91	19	26	329
23	27	76	906	296	166	413	561	107	76	18	22	215
24	150	72	637	320	2680	366	1570	110	59	18	20	154
25	1000	70	864	506	4050	338	976	112	49	21	19	129
26	2500	71	2150	478	2480	312	638	101	46	23	17	808
27	2600	211	1560	438	2450	289	488	381	41	20	16	800
28	540	854	974	549	2960	310	390	328	38	19	15	707
29	414	2900	725	471	---	667	323	193	36	18	16	547
30	354	2470	562	375	---	2160	278	151	35	19	15	750
31	794	---	689	335	---	2430	---	166	---	19	15	---
TOTAL	9178	10740	24935	27575	19348	65893	46141	5657	2061	764	681	19704
MEAN	296	358	804	890	691	2126	1538	182	68.7	24.6	22.0	657
MAX	2600	2900	2860	3590	4050	12200	10100	386	209	34	84	2890
MIN	16	70	323	296	152	289	178	80	35	18	15	13
CFSM	.93	1.12	2.51	2.78	2.16	6.64	4.81	.57	.22	.08	.07	2.05
IN.	1.07	1.25	2.90	3.21	2.25	7.66	5.36	.66	.24	.09	.08	2.29

CAL YR 1976 TOTAL 239212 MEAN 654 MAX 7060 MIN 16 CFSM 2.04 IN 27.81
WTR YR 1977 TOTAL 232677 MEAN 637 MAX 12200 MIN 13 CFSM 1.99 IN 27.05

03574500 PAINT ROCK RIVER NEAR WOODVILLE, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1976 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965, 1966, 1968, 1969, 1972-76.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)
NOV												
18...	43	251	7.8	8.0	10.8	130	7	42	5.4	1.2	.0	.7
JAN												
05...	452	--	7.3	8.0	11.4	120	14	40	4.8	.9	.0	.5
FEB												
14...	307	267	7.7	10.5	--	120	6	41	5.2	1.0	.0	.5
APR												
13...	524	215	7.4	16.0	9.4	110	12	36	4.3	.9	.0	.7
MAY												
19...	57	298	7.7	23.0	7.7	--	--	--	4.7	1.2	--	.7
JUL												
01...	34	292	7.6	26.0	6.2	130	0	45	5.4	1.1	.0	.7
AUG												
11...	18	292	7.5	27.0	5.8	140	1	46	6.9	1.5	.1	.7
SEP												
12...	83	296	7.7	23.5	7.2	140	14	46	5.3	1.0	.0	.4

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)
NOV											
18...	150	0	6.6	1.8	.1	3.2	138	16.0	.77	3.4	ND
JAN											
05...	130	0	8.8	1.6	.0	2.8	126	154	.63	2.8	ND
FEB											
14...	140	0	15	3.4	.0	6.0	145	120	.95	4.2	ND
APR											
13...	120	0	6.8	1.0	.1	5.3	116	164	.34	1.5	1
MAY											
19...	150	0	--	2.0	.1	1.6	--	--	.47	2.1	2
JUL											
01...	160	0	11	2.4	.0	4.1	151	13.9	.56	2.5	ND
AUG											
11...	170	0	12	3.2	.1	5.6	162	7.87	.44	1.9	1
SEP											
12...	150	0	12	2.0	.1	6.3	150	33.6	.59	2.6	ND

DATE	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	CHLOR-A PERIPHYTON CHROMOGRAPHIC FLUOROM (MG/M2)	CHLOR-B PERIPHYTON CHROMOGRAPHIC FLUOROM (MG/M2)
NOV											
18...	<1	ND	<1	170	1	56	<.2	190	10	--	--
JAN											
05...	<1	ND	1	0	<1	22	<.2	160	10	--	--
FEB											
14...	ND	ND	ND	0	1	29	<.2	180	10	--	--
APR											
13...	<1	ND	1	90	<1	40	<.2	140	<5	--	--
MAY											
19...	<1	ND	1	10	ND	260	<.2	200	30	.221	.720
JUL											
01...	<1	ND	1	0	1	30	ND	250	20	--	--
AUG											
11...	<1	ND	1	20	1	63	<.2	260	60	--	--
SEP											
12...	ND	ND	1	160	<1	52	1.0	230	30	.033	.009

03575000 FLINT RIVER NEAR CHASE, AL

LOCATION.--Lat 34°49'22", long 86°28'59", in NW¼NW¼ sec. 36, T. 2 S., R. 1 E., Madison County, Hydrologic Unit 06030003, on left bank 10 ft (3 m) downstream from Winchester Road, 400 ft (122 m) downstream from Brier Fork, 1,100 ft (335 m) upstream from L & N Railroad bridge, 4.3 mi (6.9 km) northeast of Chase, Ala., and at mile 36.2 (58.2 km).

DRAINAGE AREA.--342 mi^2 (886 km^2)

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1929 to current year. Prior to May 1930 monthly discharge only, published in WSP 1306.

REVISED RECORDS.--WSP 823: Drainage area. WSP 853: 1936(M). WSP 1306: 1934(M). WSP 1910: Peak discharge (base).

GAGE.--Water-stage recorder. Datum of gage is 640.37 ft (195.185 m) above mean sea level. May 1934 to January 1975, water-stage recorder 0.2 mi (0.3 km) downstream at same datum. Prior to May 1934, nonrecording gage 1,100 ft (335 m) downstream at L & N Railroad bridge at same datum.

REMARKS.--Water-discharge record good.

AVERAGE DISCHARGE.--48 years, 548 ft^3/s (15.52 m^3/s), 21.76 in/yr (553 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 104,000 ft^3/s (2,945 m^3/s) Mar. 16, 1973, gage height, 29.52 ft (8.998 m); minimum, 44 ft^3/s (1.25 m^3/s) Sept. 20, 27, 30, 1931; minimum gage height, 0.82 ft (0.250 m) Sept. 3, 27, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in September 1929 reached a stage of 25.0 ft (7.62 m) from flood-marks, discharge, 58,500 ft^3/s (1,657 m^3/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 6,000 ft^3/s (170 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 4	1800	17600	498	16.10	4.907	Apr. 5	0030	*33100	937	*21.22	6.468
Mar. 12	2315	22500	637	18.01	5.489						

Minimum discharge, 81 ft^3/s (2.29 m^3/s) Aug. 7, gage height, 3.91 ft (1.192 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	148	389	460	480	376	794	503	282	163	128	94	88
2	151	330	413	412	366	646	479	278	157	122	90	88
3	151	295	380	396	360	594	1570	270	154	120	87	87
4	144	275	353	419	363	9450	9990	270	150	119	83	86
5	130	252	332	486	368	5160	14100	265	148	117	85	86
6	135	239	321	538	363	2140	1850	252	145	111	85	86
7	141	230	334	994	344	1470	969	241	138	105	81	385
8	144	205	352	742	332	1000	732	251	138	103	89	782
9	144	209	322	1250	324	802	594	243	138	105	92	252
10	144	209	302	2040	324	707	517	225	138	106	196	175
11	142	201	296	890	320	685	461	210	138	97	169	204
12	136	201	390	621	356	8870	422	208	136	103	112	193
13	132	197	484	591	502	10000	392	203	135	103	98	158
14	128	193	400	710	447	1740	370	197	133	103	95	302
15	126	193	374	965	388	1080	350	196	136	101	118	2620
16	114	186	375	712	366	847	329	192	138	96	122	860
17	111	186	352	536	349	696	316	189	170	96	116	609
18	111	182	330	492	339	637	303	186	305	104	736	356
19	111	182	315	436	334	562	294	184	221	142	264	514
20	120	182	1040	435	324	619	283	182	175	110	162	602
21	126	179	814	416	319	572	276	178	199	99	132	347
22	129	175	515	406	314	512	441	183	176	99	119	266
23	123	168	457	394	329	465	836	196	155	98	111	228
24	168	164	420	447	2900	440	798	187	144	98	113	209
25	1750	164	502	635	1280	421	501	188	138	96	106	556
26	1900	168	1020	529	745	403	401	196	135	93	106	2630
27	559	230	1030	546	2350	398	349	196	135	96	103	721
28	389	662	1030	565	1270	437	319	195	131	92	100	690
29	330	1100	1040	476	---	616	297	185	127	92	95	451
30	330	593	431	413	---	971	288	179	124	95	92	1340
31	512	---	533	396	---	674	---	171	---	93	90	---
TOTAL	8979	8139	15717	19368	16752	54408	39330	6578	4620	3242	4141	15971
MEAN	290	271	507	625	598	1755	1311	212	154	105	134	532
MAX	1900	1100	1040	2040	2900	10000	14100	282	305	142	736	2630
MIN	111	164	296	394	314	398	276	171	124	92	81	86
CFSM	.85	.79	1.48	1.83	1.75	5.13	3.83	.62	.45	.31	.39	1.56
IN.	.98	.89	1.71	2.11	1.82	5.92	4.28	.72	.50	.35	.45	1.74

CAL YR 1976 TOTAL 152314 MEAN 416 MAX 5050 MIN 93 CFSM 1.22 IN 16.57
WTR YR 1977 TOTAL 197245 MEAN 540 MAX 14100 MIN 81 CFSM 1.58 IN 21.45

03575000 FLINT RIVER NEAR CHASE, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1964 to September 1967, November 1970 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: May 1964 to September 1967, November 1970 to current year.

INSTRUMENTATION.--Temperature recorder May 1964 to September 1967, and since November 1970.

REMARKS.--No temperature data Dec. 21-31, Jan. 1-31, Feb. 1, Aug. 22-31, Sept. 1-6, 28-30 due to recorder malfunction. Miscellaneous samples of chemical data published for water years 1965, 1966, 1968, and 1969.

COOPERATION.--Temperature records furnished by Tennessee Valley Authority. Water-quality samples collected by the U.S. Geological Survey and analyzed by the Geological Survey of Alabama.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 29.0°C July 7-9, 1977; minimum, 0.0°C Jan. 9, 18, 1976, and several days during February 1977.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 29.0°C July 7-9; minimum, 0.0°C on several days during February.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
NOV										
16...	188	130	7.7	8.0	--	63	5	19	3.6	1.3
MAR										
11...	492	106	7.0	14.5	--	49	10	16	2.1	1.4
APR										
01...	500	130	7.3	15.0	10.6	60	8	20	2.4	1.4
JUN										
30...	124	132	6.6	23.0	--	60	--	20	3.6	1.1
AUG										
30...	90	146	8.1	24.5	--	67	7	21	3.6	.9

DATE	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
NOV									
16...	.1	.8	69	0	3.2	2.4	.1	5.9	74
MAR									
11...	.1	.9	48	0	3.6	3.8	.0	6.3	64
APR									
01...	.1	1.7	64	0	5.4	3.0	.0	3.5	70
JUN									
30...	.1	.7	--	--	3.2	1.8	.0	8.4	--
AUG									
30...	.0	.6	74	0	2.8	2.3	.1	6.9	76

DATE	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED BARIUM (BA) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	DISSOLVED COBALT (CO) (UG/L)
NOV									
16...	37.6	.88	3.9	ND	--	<1	ND	--	1
MAR									
11...	85.0	1.4	6.2	<1	ND	<1	ND	ND	--
APR									
01...	94.5	.11	.50	1	--	<1	ND	--	1
JUN									
30...	--	.34	1.5	1	ND	<1	<1	ND	--
AUG									
30...	18.5	.21	.92	<1	--	<1	ND	--	<1

03575000 FLINT RIVER NEAR CHASE, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
NOV									
16...	--	10	1	28	2.0	--	--	50	10
MAR									
11...	2	70	1	42	<.2	ND	ND	60	20
APR									
01...	--	110	<1	19	ND	--	--	70	<5
JUN									
30...	2	1600	ND	27	<.2	<1	<1	80	10
AUG									
30...	--	60	2	30	<.2	--	--	70	10

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	19.0	15.0	12.0	9.5	5.5	3.0			---	---	8.5	6.5
2	19.0	14.5	11.5	8.5	6.0	4.0			4.0	0.0	9.0	6.5
3	19.0	15.0	12.0	9.0	6.0	5.0			4.5	2.0	9.0	8.0
4	19.5	15.0	11.0	9.0	5.5	4.0			6.5	3.0	11.0	8.5
5	19.5	16.5	10.0	7.0	6.0	5.5			6.5	4.5	10.5	8.0
6	19.0	17.0	9.5	6.5	7.0	6.0			5.0	0.5	9.5	8.0
7	17.0	15.0	10.5	8.5	7.0	6.0			4.5	0.0	9.0	6.0
8	16.0	14.5	9.5	7.0	6.5	4.5			5.0	0.0	10.0	6.5
9	16.0	13.5	9.5	6.0	5.0	3.0			5.5	1.5	10.5	8.0
10	15.5	12.0	11.0	8.0	6.0	4.0			6.5	3.0	12.0	9.0
11	15.5	11.5	9.5	8.0	8.0	6.0			8.0	4.5	13.5	11.0
12	16.0	12.0	9.0	6.0	9.0	8.0			8.5	6.5	14.5	12.0
13	16.5	13.0	8.0	5.5	9.0	6.5			9.5	7.0	13.0	11.0
14	16.5	13.5	7.0	6.0	7.0	5.5			9.0	6.5	13.0	10.0
15	16.5	13.0	8.5	6.5	8.5	7.0			9.0	6.0	13.5	10.5
16	15.5	14.0	9.0	5.0	9.0	6.5			7.0	4.5	14.0	11.5
17	15.0	13.0	9.0	6.5	8.0	5.5			6.5	3.5	13.0	10.5
18	15.0	11.0	9.5	6.0	8.5	5.5			9.0	5.0	14.5	11.0
19	14.5	11.0	10.0	8.0	9.0	6.5			9.0	6.5	14.0	12.0
20	13.5	11.5	10.5	9.0	9.5	6.5			8.5	5.5	13.5	11.0
21	14.0	10.0	10.0	8.0	---	---			8.5	4.0	13.0	11.0
22	13.5	9.0	8.5	5.5	---	---			10.0	5.5	13.0	10.0
23	13.5	10.5	7.0	4.0	---	---			10.0	9.0	12.0	8.5
24	13.5	12.0	8.0	5.0	---	---			9.5	8.0	13.5	9.0
25	14.5	13.0	8.5	5.5	---	---			10.5	8.0	14.0	10.0
26	14.5	12.0	10.0	8.0	---	---			13.0	9.5	14.5	11.0
27	13.0	10.5	11.5	9.5	---	---			13.0	8.0	15.5	13.0
28	11.5	9.5	11.0	6.5	---	---			9.0	6.5	15.5	13.5
29	11.0	8.5	6.5	1.5	---	---			---	---	15.0	12.0
30	13.0	10.0	4.5	0.0	---	---			---	---	17.0	14.0
31	11.5	11.0	---	---	---	---			---	---	17.0	14.5
MONTH	19.5	8.5	12.0	0.0	9.5	3.0			13.0	0.0	17.0	6.0

03575000 FLINT RIVER NEAR CHASE, AL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	16.0	13.0	18.5	15.5	25.5	20.0	26.5	24.0	26.5	23.0	---	---
2	15.0	13.0	20.5	15.5	24.5	20.0	27.0	23.0	26.5	21.5	---	---
3	15.0	13.0	20.5	18.0	25.0	19.5	26.5	21.5	27.0	22.0	---	---
4	14.5	12.0	20.0	18.0	24.5	19.0	27.0	21.5	26.0	23.0	---	---
5	14.5	10.5	22.0	18.0	25.0	19.5	27.0	23.0	27.0	22.0	---	---
6	11.5	8.5	23.0	19.0	25.5	20.5	28.5	23.0	28.0	23.5	---	---
7	13.5	9.5	23.5	19.5	24.0	19.5	29.0	23.5	26.5	23.5	22.0	19.0
8	15.0	11.5	23.0	19.5	23.0	18.0	29.0	24.0	28.0	23.0	23.0	19.5
9	14.5	11.5	22.0	18.5	23.5	18.5	29.0	24.5	28.5	23.0	23.5	20.0
10	15.5	12.0	20.0	15.5	23.0	19.5	28.0	24.0	26.5	24.0	23.5	20.5
11	16.5	13.0	20.0	14.5	24.0	19.0	27.0	24.0	27.0	23.0	22.0	19.5
12	17.0	13.5	20.5	15.0	26.0	20.5	28.5	24.0	28.0	23.5	22.0	18.5
13	17.0	14.5	21.0	15.0	26.0	21.5	28.5	24.0	28.0	24.0	23.0	19.5
14	18.0	14.0	20.5	16.0	24.5	22.0	28.5	23.5	27.0	24.0	23.0	20.0
15	18.5	14.5	20.5	16.0	23.5	21.5	28.0	24.5	26.0	23.5	21.5	20.0
16	18.0	15.0	21.5	16.5	23.5	21.0	28.0	24.0	26.5	22.0	21.5	19.5
17	18.0	15.0	22.0	18.0	24.0	21.0	27.0	24.0	24.5	23.0	21.0	19.5
18	18.0	15.5	21.5	18.0	24.0	21.0	27.0	23.0	24.5	22.0	22.0	20.5
19	18.5	15.5	23.0	18.0	25.5	22.0	27.0	23.0	24.0	21.0	21.0	20.5
20	18.5	15.5	23.5	18.5	25.5	23.0	27.0	23.5	24.5	20.5	21.5	19.5
21	17.0	15.5	23.5	19.0	25.5	21.0	27.0	23.5	24.5	21.0	21.5	18.5
22	16.0	15.5	21.0	19.5	26.5	23.0	28.0	23.5	---	---	21.0	18.0
23	16.5	14.5	22.0	18.5	27.0	23.0	27.0	24.0	---	---	21.5	18.5
24	16.0	14.5	22.0	18.5	27.0	23.0	27.0	24.5	---	---	21.0	19.5
25	16.0	13.0	21.0	19.0	26.5	23.5	26.5	24.0	---	---	20.0	19.0
26	14.0	11.5	21.5	18.5	26.5	23.5	27.0	23.5	---	---	20.0	19.0
27	15.0	10.5	22.0	19.0	27.0	23.5	26.0	22.0	---	---	20.0	19.0
28	16.0	11.5	21.5	19.0	27.0	23.5	25.0	22.0	---	---	---	---
29	16.0	14.0	23.5	19.0	27.0	23.5	23.5	22.0	---	---	---	---
30	17.0	14.0	24.5	20.0	27.0	23.5	26.0	22.0	---	---	---	---
31	---	---	25.5	20.5	---	---	26.0	23.0	---	---	---	---
MONTH	18.5	8.5	25.5	14.5	27.0	18.0	29.0	21.5	28.5	20.5	23.5	18.0

03575040 FLINT RIVER NEAR MOUNT CARMEL, AL

LOCATION.--Lat 34°47'13", long 86°28'51", in NE¼SW¼SW¼ sec. 12, T. 3 S., R. 1 E., Madison County, Hydrologic Unit 06030002, 1600 ft (488 m) downstream from Chase Creek, 0.7 mi (1.1 km) northeast of Acuff Spring, 1.3 mi (2.1 km) southeast of Mount Carmel, and at mile 33.0 (53.1 km).

DRAINAGE AREA.--362 mi^2 (938 km^2).

PERIOD OF RECORD.--February to September 1972, March 1975 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water year 1971.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)
NOV												
15...	222	128	7.4	8.0	11.9	60	5	18	3.5	1.3	.1	.8
DEC												
17...	564	124	7.9	10.0	--	60	14	--	--	--	--	--
JAN												
04...	475	140	7.5	6.5	13.1	63	8	20	3.2	1.3	.1	.8
FEB												
14...	365	128	7.1	9.0	12.6	61	14	20	2.6	1.3	.1	.8
MAR												
11...	615	129	7.2	11.5	--	60	11	20	2.4	1.5	.1	.7
29...	590	131	7.0	16.0	--	60	13	20	2.5	1.1	.1	.6
APR												
12...	528	--	7.0	16.5	--	--	--	--	--	--	--	--
MAY												
19...	266	142	7.7	19.0	9.6	61	0	19	3.2	1.4	.1	.6
JUN												
29...	130	150	7.7	23.5	8.6	60	0	18	3.6	1.3	.1	.7
JUL												
19...	169	134	7.2	23.0	--	67	7	--	--	1.0	.1	.4
AUG												
11...	135	105	7.3	22.0	6.8	30	0	8.9	1.8	7.3	.6	2.1
SEP												
12...	5450	125	7.7	22.0	8.2	50	4	15	2.9	1.2	.1	.8

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)
NOV											
15...	68	0	2.4	2.6	.1	6.2	68	40.8	.07	.30	1
DEC											
17...	56	0	--	2.6	--	--	--	--	--	--	--
JAN											
04...	67	0	4.4	3.0	.0	5.3	76	97.5	1.0	4.5	ND
FEB											
14...	58	0	4.4	4.8	.1	8.9	75	73.9	.84	3.7	1
MAR											
11...	60	0	4.8	3.2	.0	5.2	72	120	.97	4.3	<1
29...	58	0	3.2	2.8	.2	2.5	65	104	.75	3.3	1
APR											
12...	60	0	--	3.2	--	--	--	--	--	--	--
MAY											
19...	76	0	1.8	2.4	.0	4.6	78	56.0	1.6	7.0	<1
JUN											
29...	76	0	3.0	2.2	.0	5.7	76	26.7	.99	4.4	ND
JUL											
19...	73	0	3.4	2.0	.0	4.1	--	--	2.1	9.5	--
AUG											
11...	46	0	5.0	2.2	.1	4.2	58	21.1	.77	3.4	2
SEP											
12...	56	0	6.8	2.4	.0	6.1	67	986	.96	4.2	2

03575040 FLINT RIVER NEAR MT. CARMEL, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
NOV											
15...	<1	ND	<1	--	20	2	33	.2	--	30	10
DEC											
17...	--	--	--	--	--	--	--	--	--	--	--
JAN											
04...	<1	<1	1	--	150	1	58	ND	--	60	10
FEB											
14...	<1	ND	<1	--	130	<1	30	<.2	--	60	10
MAR											
11...	<1	ND	--	3	130	1	44	ND	ND	60	20
29...	<1	1	<1	--	60	<1	13	<.2	--	50	10
APR											
12...	--	--	--	--	--	--	--	--	--	--	--
MAY											
19...	<1	ND	<1	--	20	ND	16	ND	--	90	10
JUN											
29...	<1	ND	ND	--	10	1	26	<.2	--	50	20
JUL											
19...	--	--	--	--	--	--	--	--	--	--	--
AUG											
11...	1	ND	1	--	40	1	22	ND	--	80	70
SEP											
12...	<1	ND	<1	--	130	<1	8	1.0	--	100	30

TENNESSEE RIVER MAIN STEM

03575500 TENNESSEE RIVER AT WHITESBURG, AL

LOCATION.--Lat 34°34'18", long 86°33'29", SW¼ sec. 29, T. 5 S., R. 1 E., Madison County, Hydrologic Unit 06030003, at Whitesburg, on right bank, 2,500 ft (762 m) upstream from Aldridge Creek, 3,000 ft (914 m) upstream from Clement C. Clay Bridge on U.S. Highway 231, 11.0 mi (17.7 km) south of Huntsville, 15.1 mi (24.3 km) downstream from Guntersville Dam, and at mile 333.9 (537.2 km).

DRAINAGE AREA.--25,610 mi^2 (6,633 km^2), approximately.

PERIOD OF RECORD.--October 1924 to current year. Monthly discharge only for some periods, published in WSP 1306. Prior to October 1936, published as "at Decatur." Gage-height records collected in this vicinity since 1875 (fragmentary prior to April 1909) are contained in files of Corps of Engineers and in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 549.00 ft (167.335 m) above mean sea level. Oct. 1, 1924, to Dec. 2, 1926, nonrecording gage and Dec. 3, 1926, to Sept. 30, 1936, water-stage recorder, at site 28.3 mi (45.5 km) downstream at datum 14.70 ft (4.481 m) lower. Oct. 1, 1936, to Sept. 30, 1960, water-stage recorder 830 ft (253 m) downstream at same datum. Since Mar. 4, 1937, auxiliary gage is 28.3 mi (45.5 km) downstream.

REMARKS.--Records good except those below 20,000 ft^3/s (566 m^3/s) which are poor. Discharge below 20,000 ft^3/s (566 m^3/s) computed on basis of records for Guntersville Dam, adjusted for storage and inflow. Since 1936, flow regulated by increasing number of reservoirs above station.

AVERAGE DISCHARGE.--53 years, 43,600 ft^3/s (1,235 m^3/s), 23.12 in/yr (587 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 323,000 ft^3/s (9,147 m^3/s) Mar. 19, 1973, gage height, 26.06 ft (7.943 m); minimum daily, 400 ft^3/s (11.3 m^3/s) July 24, 1966.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 31.4 ft (9.57 m) in March 1867, present site and datum, from high-water profile by Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 222,000 ft^3/s (6,290 m^3/s) Apr. 7, gage height, 20.36 ft (6.206 m) Apr. 7; minimum daily, 2,950 ft^3/s (83.5 m^3/s) Sept. 3; minimum gage height, 1.66 ft (0.506 m) Feb. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21900	37900	46000	48300	34500	47900	87500	41600	36700	35100	31200	23500
2	20400	38500	46000	46400	32800	49000	83100	36200	38000	18400	29400	17400
3	19700	36800	46000	47500	31900	47100	92500	36500	34800	20900	27900	4550
4	25500	38800	53000	46700	23700	40600	128000	36600	27000	24700	31700	7380
5	22300	36800	40000	47500	22300	42800	166000	31300	23200	29600	20600	8780
6	23400	31400	50000	47700	20900	52500	209000	36000	32600	30600	12900	17400
7	22800	25200	42900	50200	29000	61500	218000	35400	31500	40800	8480	34900
8	19900	32500	49200	55400	33500	59700	197000	25600	31400	40400	28200	51400
9	25400	28400	47400	62400	30000	57000	157000	34900	25000	17700	28000	49600
10	25800	28600	47000	77900	23000	53800	111000	36700	24800	16300	31700	46300
11	34100	33000	47100	82400	21800	50800	85600	35200	20700	17900	28400	33700
12	32200	33500	50100	80700	22700	57100	75000	32600	21000	36400	22000	32400
13	30800	34500	55400	79300	24200	108000	61300	32600	34300	37300	18700	33500
14	31500	31300	55300	77000	30200	132000	61200	24700	42600	35500	11400	32300
15	31500	33200	58200	73400	37900	120000	56700	17900	38600	37600	37000	47000
16	25500	30800	60700	62700	33800	103000	47700	31600	29300	32200	45000	49600
17	25900	34400	59300	57700	31200	92800	48200	34500	19800	24000	46000	51100
18	32100	31800	59700	49900	21900	70100	48300	30500	25200	30600	47000	50400
19	32500	28800	58300	49800	20300	52100	42500	29200	24400	27500	49000	50300
20	34300	20900	55500	47900	19900	43300	40600	32100	33600	31800	17000	49100
21	38600	22000	57400	47900	16200	34900	43900	26700	38400	33800	12000	49000
22	30200	27000	55800	47700	19600	39000	44200	22200	40600	30500	24000	48600
23	32500	36000	52100	42900	16300	40700	51000	31600	42400	16700	33000	48500
24	29200	39000	49200	37400	31900	46400	53000	31200	29400	20000	38000	33100
25	37100	30000	48000	42000	45100	39400	53900	31500	21100	31800	40000	19600
26	38500	30000	51800	44000	53000	37200	46100	36500	19500	34000	32700	29700
27	43800	35000	50400	39300	49900	28600	50200	34400	40600	39100	7040	39500
28	44700	26000	49200	34700	46300	25500	41900	31300	40300	38200	4570	38100
29	35400	40000	42200	47200	---	25800	45200	24000	34500	32300	20700	37100
30	45200	58000	37300	42300	---	57400	41800	24800	34200	14800	24300	37300
31	32700	---	41200	35400	---	87000	---	32400	---	12400	26000	---
TOTAL	945400	990100	1561700	1651600	823800	1803000	2487400	978300	935500	888900	833890	1071110
MEAN	30500	33000	50380	53280	29420	58160	82910	31560	31180	28670	26900	35700
MAX	45200	58000	60700	82400	53000	132000	218000	41600	42600	40800	49000	51400
MIN	19700	20900	37300	34700	16200	25500	40600	17900	19500	12400	4570	4550
CFSM	1.19	1.29	1.97	2.08	1.15	2.27	3.24	1.23	1.22	1.12	1.05	1.39
IN.	1.37	1.44	2.27	2.40	1.20	2.62	3.61	1.42	1.36	1.29	1.21	1.56

CAL YR 1976 TOTAL 14162500 MEAN 38700 MAX 90900 MIN 10900 CFSM 1.51 IN 20.57
WTR YR 1977 TOTAL 14970700 MEAN 41020 MAX 218000 MIN 4550 CFSM 1.60 IN 21.75

03575830 INDIAN CREEK NEAR MADISON, AL

LOCATION.--Lat 34°41'50", long 86°42'00", in NE¼ sec. 14, T. 4 S., R. 2 W., Madison County, Hydrologic Unit 06030003, on downstream side of bridge on State Highway 20, 0.3 mi (0.5 km) downstream from Southern Railroad bridge, 2.8 mi (4.5 km) east of Madison, and at mile 5.8 (9.3 km).

DRAINAGE AREA.--49.0 mi^2 (126.9 km^2).

PERIOD OF RECORD.--October 1959 to September 1966, October 1975 to current year. October 1966 to September 1972 (annual maximum only). October 1972 to September 1975 (flood hydrograph only).

GAGE.--Water-stage recorder. Datum of gage is 600 ft (183 m) above mean sea level (from topographic map).

REMARKS.--Records good. Records of specific conductance and water temperatures for the water year 1977 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--9 years (1959-66, 1977), 62.7 ft^3/s (1.776 m^3/s), 17.38 in/yr (441 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,500 ft^3/s (467 m^3/s) Mar. 16, 1973, gage height, 12.70 ft (3.871 m); 1959-66, minimum discharge, 2.5 ft^3/s (0.071 m^3/s) Aug. 3, 1962.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,500 ft^3/s (42.5 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 4	1000	2060	58.3	7.84	2.390	Apr. 4	2130	2180	60.3	7.95	2.423
Mar. 12	1445	*3420	96.9	*8.80	2.682						

Minimum discharge, 3.6 ft^3/s (0.10 m^3/s) Aug. 12, 13, gage height, 1.92 ft (0.585 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.4	18	23	38	32	86	83	64	14	8.8	5.1	6.5
2	8.2	15	20	38	30	70	87	58	13	9.4	4.8	6.5
3	7.8	14	18	32	29	77	221	56	13	8.4	4.5	6.6
4	7.8	13	16	33	29	1350	1260	55	12	7.7	4.7	6.6
5	7.9	12	15	37	29	396	964	57	12	7.7	4.8	7.2
6	9.3	12	15	46	26	326	262	54	12	6.5	4.7	7.3
7	8.6	12	16	81	25	208	196	51	14	5.9	4.6	45
8	8.3	12	15	57	24	160	165	46	13	5.8	11	11
9	9.1	11	13	229	23	137	144	42	12	8.2	4.2	6.8
10	8.5	11	13	191	24	122	130	39	12	6.1	11	6.7
11	8.5	11	14	98	22	136	119	36	12	6.1	4.3	6.7
12	7.7	11	23	81	29	1680	110	33	11	6.5	4.0	6.4
13	8.1	11	21	75	30	766	102	32	11	6.0	3.9	7.2
14	8.3	11	18	107	26	268	96	30	11	5.7	4.4	7.5
15	8.4	11	18	101	25	211	90	28	12	5.7	5.3	18
16	8.9	10	17	76	23	178	85	27	11	5.7	8.9	9.1
17	9.2	10	16	66	22	156	79	24	14	5.9	14	9.0
18	9.4	10	15	66	22	144	76	23	17	5.7	6.8	7.7
19	9.5	10	14	66	21	129	72	22	13	5.6	5.4	26
20	11	10	120	59	20	132	68	21	12	5.8	4.9	12
21	10	10	64	46	20	117	67	23	12	6.0	4.9	8.6
22	9.8	11	36	43	19	108	202	35	11	5.6	4.8	8.6
23	9.6	9.7	31	41	26	100	261	22	10	5.9	5.0	8.3
24	16	9.7	25	56	194	94	146	19	9.5	5.4	5.1	8.6
25	72	10	63	53	74	90	110	18	9.5	5.4	5.3	32
26	35	11	77	47	54	85	91	19	9.3	5.7	5.3	24
27	19	15	50	50	216	82	81	18	9.0	5.6	5.3	16
28	15	83	43	46	118	89	73	17	8.8	4.9	6.0	13
29	13	77	36	39	---	97	69	16	8.9	5.1	5.7	13
30	21	31	32	40	---	151	64	15	8.5	5.9	6.0	24
31	28	---	45	33	---	97	---	15	---	5.0	6.3	---
TOTAL	421.3	502.4	942	2071	1232	7842	5573	1015	347.5	193.7	181.0	375.9
MEAN	13.6	16.7	30.4	66.8	44.0	253	186	32.7	11.6	6.25	5.84	12.5
MAX	72	83	120	229	216	1680	1260	64	17	9.4	14	45
MIN	7.7	9.7	13	32	19	70	64	15	8.5	4.9	3.9	6.4
CFSM	.28	.34	.62	1.36	.90	5.16	3.80	.67	.24	.13	.12	.26
IN.	.32	.38	.72	1.57	.94	5.95	4.23	.77	.26	.15	.14	.29

CAL YR 1976 TOTAL 17081.8 MEAN 46.7 MAX 700 MIN 7.7 CFSM .95 IN 12.97
WTR YR 1977 TOTAL 20696.8 MEAN 56.7 MAX 1680 MIN 3.9 CFSM 1.16 IN 15.71

03575960 HUNTSVILLE SPRING BRANCH AT MARTIN ROAD NEAR HUNTSVILLE, AL

LOCATION.--Lat 34°39'33", long 86°36'16", in SW¼NE¼SW¼ sec. 26, T. 4 S., R. 1 W., Madison County, Hydrologic Unit 06030002, at bridge on Martin Road, 2.2 mi (3.5 km) northwest of Farley Station Post Office in Huntsville, and at mile 9.8 (15.8 km).

DRAINAGE AREA.--46.9 mi^2 (121.5 km^2).

PERIOD OF RECORD.--February 1972 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water year 1971.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
NOV										
16...	39	575	7.6	16.0	11.0	130	0	43	5.2	37
MAR										
02...	114	--	7.3	16.0	5.6	120	6	43	3.8	23
APR										
01...	120	390	7.3	17.0	8.4	120	14	42	4.1	18
JUL										
07...	--	428	7.2	32.0	--	120	30	--	--	39
AUG										
30...	40	680	7.7	30.0	4.8	120	0	39	5.3	58

DATE	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
NOV									
16...	1.4	5.7	210	0	20	33	.5	9.8	267
MAR									
02...	.9	.4	140	0	21	23	.1	7.3	194
APR									
01...	.7	2.5	130	0	18	18	.3	5.8	178
JUL									
07...	1.5	.5	110	0	33	31	.6	9.3	--
AUG									
30...	2.3	6.4	250	0	42	5.7	.6	11	296

DATE	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED BARIUM (BA) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	DISSOLVED COBALT (CO) (UG/L)
NOV									
16...	28.4	2.3	10	<1	--	<1	1	--	1
MAR									
02...	59.7	.66	2.9	1	20	<1	11	1	<1
APR									
01...	57.7	.86	3.8	1	--	<1	ND	--	1
JUL									
07...	--	2.0	9.0	--	--	--	--	--	--
AUG									
30...	32.0	1.0	4.4	2	--	1	ND	--	1

DATE	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	DISSOLVED SILVER (AG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
NOV									
16...	--	170	1	75	<.2	--	--	110	20
MAR									
02...	4	30	2	130	.2	<1	ND	110	30
APR									
01...	--	120	<1	120	.2	--	--	110	<5
JUL									
07...	--	--	--	--	--	--	--	--	--
AUG									
30...	--	30	2	76	<.2	--	--	120	20

03576148 COTACO CREEK AT FLORETTE, AL

LOCATION.--Lat 34°24'49", long 86°41'16", in NE¼SE¼ sec. 24, T. 7 S., R. 2 W., Morgan County, Hydrologic Unit 06030002, on left bank at downstream side of bridge on county road, 0.9 mi (1.4 km) east of Florette, 1 mi (1.6 km) upstream from Sixmile Creek, and 3.1 mi (5.0 km) upstream from Wheeler Reservoir boundary.

DRAINAGE AREA.--136 mi^2 (352 km^2).

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 570 ft (174 m) (from topographic map).

REMARKS.--Records good. Records of specific conductance and water temperatures for the water year 1977 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--12 years, 263 ft^3/s (7.448 m^3/s), 26.26 in/yr (667 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,500 ft^3/s (552 m^3/s) Dec. 26, 1973, gage height, 17.89 ft (5.453 m); minimum, no flow for several days in 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,500 ft^3/s (70.8 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 4	2300	3680	104	13.05	3.978	Mar. 31	2000	4650	132	13.61	4.148
Mar. 12	2300	6490	184	14.48	4.414	Apr. 5	0400	*7070	200	*14.72	4.487

Minimum daily, 1.5 ft^3/s (0.04 m^3/s) July 19-21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	70	115	296	152	930	1300	48	13	2.9	2.0	3.7
2	28	49	94	223	143	650	913	49	11	26	2.0	3.6
3	21	39	82	225	140	476	4530	44	12	6.0	2.0	3.3
4	18	35	73	274	140	2040	3710	41	8.2	4.0	2.2	3.2
5	16	31	70	271	139	2720	5430	38	7.3	3.0	2.6	3.2
6	16	25	66	267	124	1600	2160	36	5.9	2.5	3.0	3.1
7	21	25	79	484	109	1420	1240	32	4.7	2.1	3.6	365
8	22	21	89	520	99	1080	857	29	4.7	1.9	4.3	859
9	25	19	72	609	96	784	626	28	4.7	19	4.5	482
10	25	18	62	1830	94	600	438	24	4.7	23	4.6	100
11	24	18	64	1730	92	504	319	21	5.5	10	5.5	85
12	18	24	170	1090	100	2530	251	19	6.6	5.3	5.7	47
13	15	30	294	641	130	3840	211	17	9.0	3.3	5.8	33
14	13	27	235	559	116	1730	185	15	10	3.1	11	35
15	12	34	193	676	99	1130	160	13	11	2.5	114	65
16	10	39	177	633	87	794	136	14	11	2.0	35	260
17	9.5	35	146	452	80	589	114	15	12	2.3	18	460
18	9.0	30	122	341	79	448	98	9.9	20	1.6	12	217
19	10	28	105	322	79	350	85	8.6	11	1.5	12	164
20	9.5	28	223	280	75	317	76	8.5	6.3	1.5	6.3	137
21	11	32	365	224	71	280	69	8.3	4.3	1.5	3.9	90
22	11	31	261	201	69	287	114	50	4.1	1.7	3.0	65
23	12	27	201	185	96	253	146	138	3.5	3.5	18	50
24	13	24	170	249	846	213	156	60	3.2	13	17	39
25	42	23	256	318	1330	192	123	33	2.9	6.5	5.2	89
26	92	24	591	252	869	174	89	61	2.8	4.1	4.6	552
27	53	38	609	225	838	161	73	51	4.1	3.2	4.3	531
28	32	74	426	211	1240	178	63	35	7.3	2.6	4.3	510
29	23	234	284	190	---	294	55	26	4.2	2.3	4.3	356
30	35	186	223	168	---	2360	51	20	3.0	2.1	4.1	338
31	87	---	297	161	---	2690	---	16	---	2.0	3.6	---
TOTAL	773.0	1318	6214	14107	7532	31614	23778	1008.3	218.0	166.0	328.4	5949.1
MEAN	24.9	43.9	200	455	269	1020	793	32.5	7.27	5.35	10.6	198
MAX	92	234	609	1830	1330	3840	5430	138	20	26	114	859
MIN	9.0	18	62	161	69	161	51	8.3	2.8	1.5	2.0	3.1
CFSM	.18	.32	1.47	3.35	1.98	7.50	5.83	.24	.05	.04	.08	1.46
IN.	.21	.36	1.70	3.86	2.06	8.65	6.50	.28	.06	.05	.09	1.63

CAL YR 1976 TOTAL 64308.9 MEAN 176 MAX 1460 MIN 1.7 CFSM 1.29 IN 17.59
WTR YR 1977 TOTAL 93005.8 MEAN 255 MAX 5430 MIN 1.5 CFSM 1.88 IN 25.44

03576148 COTACO CREEK AT FLORETTE, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1976 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965, 1966, 1968, 1969, 1971-76.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)
NOV												
16...	16	195	7.0	5.0	10.4	94	12	31	4.0	2.9	.1	1.9
JAN												
04...	286	155	7.3	5.0	11.6	70	16	23	3.0	2.2	.1	1.4
MAY												
18...	9.0	185	7.7	23.0	7.8	86	0	29	3.3	2.4	.1	1.6
JUN												
29...	4.6	209	7.4	24.5	4.6	95	5	32	3.6	2.8	.1	2.9
AUG												
10...	4.6	205	7.3	24.0	16.0	99	1	32	4.6	2.2	.1	2.7
SEP												
12...	45	180	7.3	19.5	6.5	74	11	24	3.3	1.9	.1	1.4

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)
NOV											
16...	100	0	5.2	4.4	.1	3.2	103	4.45	.25	1.1	ND
JAN											
04...	66	0	6.4	3.8	.0	4.4	81	62.5	.77	3.4	ND
MAY											
18...	110	0	3.8	2.6	.1	3.0	102	2.48	.38	1.7	1
JUN											
29...	110	0	7.0	3.4	.0	2.2	109	1.35	.21	.95	1
AUG											
10...	120	0	3.2	3.8	.1	4.8	114	1.42	.08	.35	1
SEP											
12...	76	0	6.4	3.8	.0	6.1	87	10.6	.59	2.6	ND

DATE	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	CHLOR-A PERIPHYTON CHROMOGRAPHIC FLUOROM (MG/M2)	CHLOR-B PERIPHYTON CHROMOGRAPHIC FLUOROM (MG/M2)
NOV											
16...	<1	ND	<1	150	1	60	<.2	110	10	--	--
JAN											
04...	<1	<1	1	50	ND	34	ND	70	10	--	--
MAY											
18...	<1	ND	1	10	ND	76	ND	110	30	--	--
JUN											
29...	<1	ND	<1	20	4	520	.2	200	30	--	--
AUG											
10...	<1	ND	1	60	ND	550	<.2	140	60	.076	.000
SEP											
12...	ND	ND	1	140	ND	130	<.2	140	40	.140	.028

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT			
05...	16	--	18.0
NOV			
22...	30	--	7.0
JAN			
12...	880	--	4.0
MAY			
11...	22	132	17.0
JUL			
28...	2.6	176	25.0

03577150 TENNESSEE RIVER AT DECATUR, AL

LOCATION.--Lat 34°36'47", long 86°58'26", in NE¼ sec. 17, T. 5 S., R. 4 W., Morgan County, Hydrologic Unit 06030002, temperature recorder at gaging station at Keller Memorial Bridge on U.S. Highway 31 at Decatur, 0.5 mi (0.8 km) upstream from Southern Railway bridge, 3.8 mi (6.1 km) downstream from Flint Creek, 30 mi (48 km) upstream from Wheeler Dam, and at mile 305 (491 km).

DRAINAGE AREA.--26,900 mi^2 (59,671 km^2).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: February 1970 to current year.

INSTRUMENTATION.--Temperature recorder since February 1970.

REMARKS.--No temperature data Feb. 20-Apr. 4 and June 1-July 1 due to recorder malfunction.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 30.5°C July 16, 17, 22-24, 1977; minimum, 3.0°C Jan. 19, 21-23, 1977.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 30.5°C July 16, 17, 22-24; minimum, 3.0°C Jan. 19, 21-23.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	23.5	23.0	14.5	14.0	9.5	8.5	6.0	5.5	4.5	4.0		
2	23.5	23.0	14.0	13.5	9.0	8.0	5.5	5.0	4.5	4.0		
3	23.5	23.5	14.0	13.5	8.5	8.0	5.5	5.5	4.5	4.5		
4	23.5	23.5	14.0	13.5	9.0	8.0	6.0	5.5	5.0	4.5		
5	23.5	23.0	13.5	13.0	8.5	8.0	6.0	5.5	5.0	4.5		
6	23.0	23.0	13.5	13.0	8.5	8.5	5.5	5.5	5.0	4.5		
7	23.0	22.0	13.5	13.0	8.5	8.0	5.5	5.5	5.0	4.5		
8	22.0	21.0	13.0	11.5	8.0	7.0	6.0	5.5	5.0	4.0		
9	21.0	20.0	13.0	12.0	8.0	6.5	6.0	5.5	5.5	4.5		
10	21.0	20.0	13.0	12.0	7.0	7.0	5.5	5.0	5.5	5.0		
11	21.0	20.5	12.0	11.5	7.0	7.0	5.0	4.5	6.0	5.5		
12	20.5	20.0	12.0	11.0	8.0	7.0	5.0	4.5	6.5	6.0		
13	20.5	20.0	11.0	11.0	7.0	7.0	5.0	4.5	6.5	6.0		
14	20.5	20.0	11.0	11.0	8.0	6.5	5.0	4.5	7.0	6.0		
15	20.5	20.0	11.0	10.5	8.0	7.0	5.5	5.0	7.0	6.5		
16	20.5	20.0	11.0	10.5	8.0	7.0	5.0	4.0	7.0	6.5		
17	20.0	19.5	11.0	10.0	8.0	7.0	4.5	4.0	8.0	6.5		
18	20.0	19.0	10.5	10.0	8.5	8.0	4.5	3.5	8.5	7.0		
19	19.5	19.0	10.5	10.0	8.5	8.0	3.5	3.0	8.5	8.0		
20	19.5	18.5	10.5	10.5	8.5	8.0	4.0	3.5	---	---		
21	18.5	17.0	10.5	10.0	8.0	7.0	3.5	3.0	---	---		
22	18.0	16.5	10.5	10.0	7.0	6.5	3.5	3.0	---	---		
23	18.0	17.0	10.0	9.5	7.0	6.5	4.0	3.0	---	---		
24	17.0	16.5	10.0	10.0	7.0	6.5	4.0	3.5	---	---		
25	17.0	16.5	10.5	10.0	6.5	6.5	4.0	3.5	---	---		
26	16.5	16.0	10.5	10.5	6.5	6.0	4.5	3.5	---	---		
27	16.0	15.5	11.0	10.5	6.5	6.0	5.0	4.5	---	---		
28	15.5	15.5	11.0	10.0	7.0	6.5	5.0	4.5	---	---		
29	15.5	15.0	10.0	9.0	7.0	6.5	4.5	4.0	---	---		
30	15.5	15.0	9.5	9.0	7.0	6.5	4.5	4.0	---	---		
31	15.0	14.5	---	---	6.5	6.0	4.5	4.0	---	---		
MONTH	23.5	14.5	14.5	9.0	9.5	6.0	6.0	3.0	8.5	4.0		

03575150 TENNESSEE RIVER AT DECATUR, AL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	20.0	20.0			---	---	28.5	28.0	29.0	28.5
2	---	---	21.0	20.0			29.0	29.0	28.5	28.0	28.5	28.5
3	---	---	21.0	21.0			29.0	29.0	28.0	28.0	28.5	28.0
4	---	---	21.0	21.0			29.0	29.0	28.0	27.0	28.5	28.0
5	16.0	15.5	21.5	21.0			29.5	29.0	28.0	27.0	28.0	28.0
6	15.5	15.0	22.0	21.5			29.5	29.5	28.0	27.0	28.0	28.0
7	15.0	14.5	22.0	22.0			30.0	29.5	28.0	28.0	28.0	26.5
8	15.5	15.0	23.0	22.0			30.0	30.0	28.5	28.0	26.5	26.5
9	15.5	15.0	22.0	22.0			30.0	30.0	28.5	28.5	26.5	26.0
10	16.0	15.5	23.0	22.0			30.0	30.0	28.5	28.5	26.0	26.0
11	16.5	16.0	22.0	22.0			30.0	29.5	28.5	28.5	26.0	26.0
12	17.0	16.5	23.0	22.0			30.0	29.5	28.5	28.5	26.0	26.0
13	18.0	17.0	23.0	23.0			30.0	30.0	28.5	28.5	26.0	26.0
14	18.5	18.0	23.0	23.0			30.0	30.0	28.5	28.5	26.5	26.0
15	19.0	18.0	23.0	23.0			30.0	30.0	28.5	28.5	26.0	26.0
16	19.0	18.5	23.0	22.0			30.5	30.0	28.5	28.5	26.0	25.5
17	19.5	19.0	23.0	23.0			30.5	30.0	28.5	28.5	25.5	25.5
18	19.5	19.0	23.5	23.0			30.0	30.0	28.5	28.5	25.5	25.5
19	20.0	19.5	24.0	23.5			30.0	30.0	28.5	28.5	25.5	25.5
20	20.0	20.0	24.0	24.0			30.0	30.0	28.5	28.5	25.5	25.5
21	20.0	20.0	24.5	24.5			30.0	30.0	28.5	28.0	25.5	25.5
22	20.0	20.0	24.5	24.5			30.5	30.0	28.5	28.5	25.5	25.5
23	20.0	19.5	25.0	24.0			30.5	30.0	28.5	28.5	25.5	25.5
24	20.0	19.5	25.0	24.5			30.5	30.0	28.5	28.0	25.5	25.0
25	20.0	19.5	24.5	24.5			30.0	30.0	28.5	28.0	25.0	24.5
26	19.5	19.5	24.5	24.5			30.0	29.5	28.5	28.5	24.5	24.5
27	19.5	19.0	25.0	24.5			29.5	29.5	28.5	28.5	24.5	24.0
28	20.0	19.5	25.0	24.5			29.5	29.0	28.5	28.0	24.0	24.0
29	20.0	19.5	24.5	24.0			29.0	28.5	28.5	28.0	24.0	23.5
30	20.0	19.5	24.5	24.0			29.0	28.5	28.5	28.5	23.5	23.0
31	---	---	25.0	24.5			29.0	28.5	28.5	28.5	---	---
MONTH	20.0	14.5	25.0	20.0			30.5	28.5	28.5	27.0	29.0	23.0

03584500 ELK RIVER NEAR PROSPECT, TN

LOCATION.--Lat 35°01'39", long 86°56'52", Giles County, Hydrologic Unit 06030004, on right bank 50 ft (15 m) upstream from county road bridge, 1.1 mi (1.8 km) downstream from Richland Creek, 3.2 mi (5.1 km) east of Prospect, 5.4 mi (8.7 km) upstream from Ford Creek, 7.9 mi (12.7 km) upstream from Tennessee-Alabama State line, and at mile 41.5 (66.8 km).

DRAINAGE AREA.--1,784 mi^2 (4,621 km^2).

PERIOD OF RECORD.--July 1904 to February 1908, January 1919 to current year. Published as "near Elkmont, Ala." 1904-8, 1919-34. Record for both sites published January to March 1934.

REVISED RECORDS.--WSP 523: 1904-8, 1919-20. WSP 823: Drainage area. WSP 1436: 1920-22, 1923(M), 1924, 1927, 1929, 1931-32(M).

GAGE.--Water-stage recorder. Datum of gage is 563.29 ft (171.691 m) above mean sea level. July 1, 1904, to Feb. 2, 1908, and Jan. 20, 1919, to Mar. 31, 1934, nonrecording gage 11.9 mi (19.1 km) downstream at datum 13.52 ft (4.121 m) lower.

REMARKS.--Records good. Flow regulated by Woods Reservoir since May 1952 (see sta. 03579000), and Tims Ford Lake since December 1970 (see sta. 03580740). Periodic observations of water temperatures and specific conductance are published in this report as miscellaneous water-quality data.

AVERAGE DISCHARGE.--61 years (1905-7, 1920-77), 3,072 ft^3/s (87.00 m^3/s), 23.38 in/yr (594 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 117,000 ft^3/s (3,310 m^3/s) Mar. 17, 1973, gage height, 40.12 ft (12.229 m), from rating curve extended above 63,000 cfs (1,780 m^3/s) on basis of slope-area measurement at gage height 38.17 ft (11.634 m) and contracted-opening measurement at gage height 38.96 ft (11.875 m); minimum, 78 ft^3/s (2.21 m^3/s) Sept. 29, 1961 (caused by highway construction upstream).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1902 reached a stage of 40.9 ft (12.47 m), discharge, 130,000 ft^3/s (3,680 m^3/s), and may have been equaled by a flood in March 1897, from reports of Tennessee Valley Authority.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 43,100 ft^3/s (1,220 m^3/s), at 2300 hours Apr. 5, gage height, 31.30 ft (9.540 m); minimum, 185 ft^3/s (5.24 m^3/s) Sept. 6, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1210	4700	3410	2970	3190	4660	2050	2220	524	637	282	425
2	964	4510	3560	1920	2800	3540	2280	1820	1330	671	226	382
3	805	4190	3740	1520	2650	3410	4230	1800	1060	708	365	395
4	713	4150	3620	1830	1640	24800	21200	1970	1030	419	425	394
5	623	3920	3180	2210	1530	36900	37300	2220	1020	280	435	244
6	1080	3760	1550	4410	1180	24900	38300	2790	462	455	441	187
7	1300	3280	1920	7940	884	7280	21900	2510	396	1180	412	437
8	1150	2220	3030	5920	1280	6010	10400	2100	747	1090	258	1240
9	1030	2300	2760	6350	1670	5740	9590	1560	828	966	195	1300
10	1010	2430	2950	10100	1680	5120	8940	1460	707	1010	335	512
11	969	2370	2560	7270	1500	4830	8530	2300	815	475	411	599
12	879	2420	3380	6110	1490	17200	8130	2160	808	290	427	362
13	802	2370	3510	5450	1440	32100	6010	2110	435	471	413	257
14	735	2320	2920	5670	1230	27600	5480	2070	516	489	406	474
15	678	2310	3410	6390	1440	9230	5310	1590	795	533	279	2540
16	644	1970	3570	4190	1780	7740	5150	806	748	545	304	2850
17	630	2260	3260	3010	1810	6830	5060	602	810	584	604	2100
18	596	2250	2920	4550	1810	6370	4930	1130	1540	283	1520	1930
19	595	2260	2040	3540	1310	5980	3670	1110	1480	258	1170	970
20	1300	2230	1310	3530	991	5730	3550	927	945	416	725	1010
21	1620	2220	2520	2900	751	4700	3380	1180	915	451	599	1490
22	1440	1070	3560	2000	1180	4120	6270	926	985	437	293	1160
23	1700	555	2940	1490	1620	3940	10800	596	877	478	227	916
24	1970	768	2650	1440	13800	3930	10100	440	763	467	402	824
25	13000	754	2510	2120	15600	3850	5960	1480	710	287	465	2280
26	20100	744	2810	2290	6340	3720	4870	1770	1180	229	470	5960
27	11300	819	2140	3320	6550	3220	4100	1730	1100	355	443	3060
28	5010	1490	2220	4140	6720	2310	3560	1690	679	433	434	3020
29	4510	2890	2290	3920	---	1590	3250	1630	699	432	268	2810
30	5790	3280	2310	3950	---	1520	3050	1220	677	488	207	2970
31	6800	---	2940	3690	---	1620	---	840	---	472	369	---
TOTAL	90953	72810	87490	126140	85866	280490	267350	48757	25581	16289	13810	43098
MEAN	2934	2427	2822	4069	3067	9048	8912	1573	853	525	445	1437
MAX	20100	4700	3740	10100	15600	36900	38300	2790	1540	1180	1520	5960
MIN	595	555	1310	1440	751	1520	2050	440	396	229	195	187

CAL YR 1976 TOTAL 954098 MEAN 2607 MAX 20100 MIN 189 MEAN‡ 2584 CFSM‡ 1.45 IN‡ 19.71
WTR YR 1977 TOTAL 1158634 MEAN 3174 MAX 38300 MIN 187 MEAN‡ 3192 CFSM‡ 1.79 IN‡ 24.29

‡ Adjusted for change in contents in Woods Reservoir and Tims Ford Lake.

03586500 BIG NANCE CREEK AT COURTLAND, AL

LOCATION.--Lat 34°40'12", long 87°19'02", in SW¼ sec. 30, T. 4 S., R. 7 W., Lawrence County, Hydrologic Unit 06030005, near right bank on downstream side of bridge on State Highway 20, at Courtland, and at mile 12.9 (20.8 km).

DRAINAGE AREA.--166 mi^2 (430 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1935 to September 1940, March 1945 to current year.

REVISED RECORDS.--WSP 1033: 1939, 1940(M). WSP 1053: 1939(M). WSP 1306: 1936(M).

GAGE.--Water-stage recorder. Datum of gage is 537.60 ft (163.860 m) above mean sea level. July 25, 1935, to Sept. 30, 1940, nonrecording gage at same site and datum.

REMARKS.--Water-discharge records good.

AVERAGE DISCHARGE.--37 years (water years 1935-40, 1945-77), 269 ft^3/s (7.618 m^3/s), 22.01 in/yr (559 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27,200 ft^3/s (770 m^3/s) Mar. 16, 1973, gage height, 24.97 ft (7.611 m); minimum daily, 0.4 ft^3/s (0.011 m^3/s) Sept. 15-17, 1954, Oct. 3-6, 12-17, 20-22, 1955; minimum gage height observed, 1.18 ft (0.360 m) Oct. 25, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,800 ft^3/s (108 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 13	1100	4340	123	17.07	5.203	Apr. 5	1200	4720	134	18.75	5.715

Minimum daily discharge, 2.2 ft^3/s (0.06 m^3/s) Sept. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	105	191	192	129	377	142	94	29	19	6.8	7.6
2	12	67	122	126	125	264	133	101	26	18	6.0	6.8
3	9.5	51	102	119	120	306	689	82	24	17	5.3	6.4
4	9.0	43	86	195	118	4290	2780	81	22	13	4.9	6.0
5	8.1	36	75	243	120	7960	5090	98	20	11	5.3	6.4
6	15	32	68	233	114	3950	2780	82	26	10	4.9	8.1
7	51	29	67	557	102	1670	574	69	46	9.5	7.6	9.0
8	42	26	74	368	97	675	362	62	29	8.5	8.1	5.3
9	22	24	66	536	93	423	278	63	23	9.5	7.6	4.9
10	17	23	55	1650	92	332	231	63	20	7.6	6.8	4.3
11	14	22	53	956	91	350	200	57	17	6.8	6.4	3.5
12	11	22	180	335	104	1900	177	54	15	6.4	6.4	2.5
13	11	22	258	266	180	3970	158	52	149	6.0	7.2	2.2
14	8.5	22	154	404	152	1760	143	50	308	5.6	11	2.3
15	8.5	22	122	697	122	488	133	47	94	5.6	8.5	2.3
16	11	23	134	411	105	360	122	45	47	5.6	12	2.3
17	11	24	114	264	94	285	112	44	225	6.0	14	2.5
18	9.5	23	93	206	91	251	106	43	177	5.6	14	2.3
19	10	21	80	191	91	222	102	42	93	5.3	10	4.6
20	12	20	177	174	86	235	97	40	68	6.0	9.5	6.4
21	13	20	323	185	84	251	94	38	75	5.6	9.5	7.6
22	14	22	157	148	80	200	162	36	49	4.9	9.0	6.4
23	14	23	117	141	143	177	435	35	39	4.9	9.0	4.6
24	25	21	103	237	1770	154	599	38	33	5.3	9.0	3.5
25	230	19	215	473	2270	142	290	46	28	5.3	8.5	3.5
26	354	20	1050	292	1010	134	174	44	26	5.3	8.5	10
27	128	31	434	241	1090	128	135	39	26	5.3	8.1	33
28	66	296	230	219	984	147	117	35	25	4.6	8.1	102
29	45	715	174	178	---	239	98	32	21	7.2	8.1	42
30	56	303	140	141	---	192	96	32	18	6.8	8.1	134
31	126	---	173	131	---	188	---	32	---	6.8	8.1	---
TOTAL	1377.1	2127	5387	10509	9657	32020	16609	1676	1798	244.0	256.3	442.3
MEAN	44.4	70.9	174	339	345	1033	554	54.1	59.9	7.87	8.27	14.7
MAX	354	715	1050	1650	2270	7960	5090	101	308	19	14	134
MIN	8.1	19	53	119	80	128	94	32	15	4.6	4.9	2.2
CFSM	.27	.43	1.05	2.04	2.08	6.22	3.34	.33	.36	.05	.05	.09
IN.	.31	.48	1.21	2.36	2.16	7.18	3.72	.38	.40	.05	.06	.10

CAL YR 1976 TOTAL 60178.2 MEAN 164 MAX 1630 MIN 7.6 CFSM .99 IN 13.49
WTR YR 1977 TOTAL 82102.7 MEAN 225 MAX 7960 MIN 2.2 CFSM 1.36 IN 18.40

03586500 BIG NANCE CREEK AT COURTLAND, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1976 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965-69, 1971-76.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)
DEC												
03...	94	219	7.5	5.0	12.0	97	7	34	2.9	2.9	.1	2.0
JAN												
18...	159	232	7.4	3.0	12.6	96	14	34	2.5	2.8	.1	1.4
MAR												
09...	380	157	7.2	12.0	10.4	83	8	30	1.8	2.3	.1	1.1
APR												
14...	124	236	7.2	18.0	8.4	120	22	45	2.0	2.6	.1	1.0
MAY												
18...	56	292	7.6	19.0	7.8	130	0	50	2.0	2.5	.1	1.1
JUN												
27...	3.3	297	7.3	22.5	6.8	130	0	49	2.1	2.4	.1	1.7
AUG												
10...	13	340	6.5	24.5	5.2	160	13	61	2.8	2.7	.1	1.3
SEP												
13...	2.1	339	7.8	23.0	9.7	160	13	60	2.5	2.5	.1	.8

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)
DEC											
03...	110	0	--	6.0	.0	6.1	--	--	1.8	8.0	4
JAN											
18...	100	0	7.4	5.0	.0	4.9	115	49.4	1.8	7.8	ND
MAR											
09...	92	0	8.0	4.4	.0	6.1	102	105	.79	3.5	<1
APR											
14...	120	0	6.2	3.8	.0	4.9	128	42.9	.90	4.0	<1
MAY											
18...	160	0	5.6	4.6	.1	4.7	157	23.7	1.7	7.6	1
JUN											
27...	160	0	6.0	5.6	.0	4.4	158	1.41	1.8	8.0	1
AUG											
10...	180	0	3.2	4.6	.1	6.8	182	6.39	2.5	11	1
SEP											
13...	180	0	5.4	4.8	.1	6.5	182	1.03	.23	10	1

DATE	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	CHLOR-A PERIPHYTON CHROMOGRAPHIC FLUOROM (MG/M2)	CHLOR-B PERIPHYTON CHROMOGRAPHIC FLUOROM (MG/M2)
DEC											
03...	<1	<1	ND	860	2	33	ND	110	40	--	--
JAN											
18...	<1	ND	1	60	1	61	ND	100	10	--	--
MAR											
09...	<1	1	<1	90	<1	37	<.2	60	10	--	--
APR											
14...	<1	ND	1	60	<1	59	ND	90	10	--	--
MAY											
18...	<1	ND	1	20	ND	59	ND	120	130	.169	.007
JUN											
27...	<1	ND	1	10	6	250	ND	100	10	--	--
AUG											
10...	<1	ND	1	20	ND	100	ND	130	30	--	--
SEP											
13...	<1	ND	<1	30	1	64	.8	120	140	1.21	.219

03588500 SHOAL CREEK AT IRON CITY, TN

LOCATION.--Lat 35°01'27", long 87°34'44", Lawrence County, Hydrologic Unit 06030005, near center of span on downstream side of bridge on county road, 400 ft (122 m) downstream from Holly Creek, 1,350 ft (411 m) upstream from Louisville & Nashville Railroad bridge, 1,350 ft (411 m) northeast of Iron City post office, and at mile 22.3 (35.9 km).

DRAINAGE AREA.--348 mi^2 (901 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1925 to current year.

REVISED RECORDS.--WSP 823: Drainage area. WSP 1113: 1927(M). WSP 1436: 1926(M), 1927-29, 1930(M), 1932, 1933(M).

GAGE.--Water-stage recorder. Datum of gage is 534.22 ft (162.830 m) above mean sea level. Prior to Feb. 25, 1931, nonrecording gage at railroad bridge, 1,350 ft (411 m) downstream at datum 0.85 ft (0.259 m) lower. Feb. 25, 1931, to Sept. 30, 1933, nonrecording gage at site 825 ft (251 m) downstream and Oct. 1, 1933, to Sept. 30, 1957, water-stage recorder at site 750 ft (229 m) downstream at datum 0.69 ft (0.210 m) higher.

REMARKS.--Records good. Prior to January 1951, diurnal fluctuation at low flow caused by powerplant near Lawrenceburg.

AVERAGE DISCHARGE.--52 years, 642 ft^3/s (18.18 m^3/s), 25.05 in/yr (636 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 132,000 ft^3/s (3,740 m^3/s) Mar. 21, 1955, gage height, 27.25 ft (8.306 m), site and datum then in use, present site and datum, 28.4 ft (8.656 m), from rating curve extended above 50,000 ft^3/s (1,416 m^3/s) on basis of slope-area measurement made 1,500 ft (457 m) downstream; minimum, 38 ft^3/s (1.08 m^3/s) Aug. 31, 1943.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1902 reached a stage about 3 ft (0.914 m) higher than that of Mar. 21, 1955, from information by local residents.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 6,500 ft^3/s (184 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 24	1400	8390	238	12.65	3.856	Mar. 12	1715	22800	646	18.32	5.584
Mar. 4	1030	*34400	974	*20.87	6.361	Apr. 5	0100	12300	348	14.91	4.545

Minimum discharge, 80 ft^3/s (2.27 m^3/s) Aug. 27, 31, Sept. 1, gage height, 2.00 ft (0.610 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	263	927	440	426	327	1220	463	544	232	213	165	93
2	229	692	420	420	325	959	482	488	219	221	155	95
3	213	602	390	416	335	1710	689	446	219	206	143	95
4	198	525	365	404	332	21800	7580	425	211	198	138	95
5	188	463	342	414	323	5250	7570	400	208	193	135	95
6	332	416	329	592	299	2220	2410	365	206	191	130	110
7	389	380	350	1300	282	1570	1590	345	290	188	125	138
8	275	346	332	1030	269	1230	1240	328	221	186	120	145
9	257	326	300	1160	273	1010	1020	309	208	193	115	118
10	240	312	288	1780	269	875	865	287	203	196	110	110
11	216	299	291	1250	265	888	762	275	201	196	155	105
12	203	304	409	930	319	12700	688	266	198	188	150	97
13	193	278	451	755	356	6050	636	257	198	186	115	107
14	186	274	433	1040	318	2260	604	251	335	175	115	345
15	183	282	420	1330	301	1600	570	248	234	165	135	910
16	181	262	401	1070	284	1260	537	240	219	158	196	498
17	188	249	375	820	277	1040	509	234	251	150	178	281
18	181	245	347	720	279	934	491	242	599	148	188	213
19	175	244	323	612	276	813	488	232	432	145	150	216
20	211	238	315	562	266	740	464	232	614	148	135	263
21	245	231	296	502	260	671	457	229	495	158	125	201
22	203	219	269	453	260	626	588	240	287	191	118	170
23	191	212	268	414	454	577	810	232	232	198	113	155
24	991	212	256	439	6130	546	1550	229	219	181	110	150
25	4130	210	318	446	2450	523	1070	237	226	170	107	1140
26	2920	257	461	408	1510	517	796	260	599	178	105	2640
27	1250	505	407	366	1960	493	653	240	541	163	102	865
28	801	449	396	460	1590	527	574	229	309	150	102	773
29	629	509	376	394	---	560	534	224	232	196	100	537
30	1040	470	352	369	---	510	488	221	219	203	100	661
31	1370	---	461	355	---	488	---	234	---	181	95	---
TOTAL	18271	10938	11181	21637	20589	72167	37178	8989	8857	5613	4030	11421
MEAN	589	365	361	698	735	2328	1239	290	295	181	130	381
MAX	4130	927	461	1780	6130	21800	7580	544	614	221	196	2640
MIN	175	210	256	355	260	488	457	221	198	145	95	93
CFSM	1.69	1.05	1.04	2.01	2.11	6.69	3.56	.83	.85	.52	.37	1.10
IN.	1.95	1.17	1.20	2.31	2.20	7.71	3.97	.96	.95	.60	.43	1.22

CAL YR 1976 TOTAL 221828 MEAN 606 MAX 4380 MIN 165 CFSM 1.74 IN 23.71
WTR YR 1977 TOTAL 230871 MEAN 633 MAX 21800 MIN 93 CFSM 1.82 IN 24.68

TENNESSEE RIVER MAIN STEM

03589500 TENNESSEE RIVER AT FLORENCE, AL

LOCATION.--Lat 34°47'13", long 87°40'12", in SW¼ sec. 14, T. 3 S., R. 11 W., Lauderdale County, Hydrologic Unit 06030005, on right bank at lower end of Patton Island, 137 ft (41.8 m) upstream from Southern Railway bridge, 700 ft (213 m) upstream from O'Neal Bridge on U.S. Highway 72, 1.1 mi (1.8 km) south of Florence Post Office, 1.7 mi (2.7 km) upstream from Cypress Creek, 2.7 mi (4.3 km) downstream from Wilson Dam, and at mile 256.7 (413.0 km).

DRAINAGE AREA.--30,810 mi^2, approximately, (79,798 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1871 to September 1894 (gage heights only), October 1894 to current year.

REVISED RECORD.--WSP 473: 1897(M). WSP 1306: 1914(M), 1936 (monthly runoff). WSP 1436: 1897, 1899, 1916.

GAGE.--Water-stage recorder. Datum of gage is 401.12 ft (122.261 m) above mean sea level. Prior to Apr. 1, 1926, several National Weather Service staff gages at or near Southern Railway bridge 137 ft (41.8 m) downstream at same datum. Apr. 1, 1926, to Mar. 11, 1958, water-stage recorder on left bank at lower end of old lock and dam, 1,400 ft (427 m) upstream at same datum. Since Oct. 1, 1938, auxiliary water-stage recorder 15.2 mi (24.5 km) downstream.

REMARKS.--Water-discharge records good except those below 25,000 ft^3/s (708 m^3/s), which are fair. Slight regulation since 1924 by Wilson Lake and increasing regulation since 1936 as other reservoirs have been built above station. Flow now almost completely regulated.

AVERAGE DISCHARGE.--83 years, 51,600 ft^3/s (1461 m^3/s), 22.74 in/yr (578 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 530,000 ft^3/s (1,500 m^3/s) Mar. 17, 1973 (gage height, 30.03 ft (9.153 m); minimum daily, 105 ft^3/s (2.97 m^3/s) Sept. 7, 1969 (computed on basis of Wilson Dam records); minimum gage height, -0.30 ft (-0.914 m) Oct. 8, 1925, caused by filling of Wilson Lake.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1867 reached a stage of 31.1 ft (9.48 m), from National Weather Service records, discharge, 421,000 ft^3/s (1,190 m^3/s). Maximum discharge observed, 444,000 ft^3/s (1,260 m^3/s) Mar. 19, 1897, gage height, 32.5 ft (9.91 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 252,000 ft^3/s (7137 m^3/s) Apr. 8, gage height, 21.81 ft (6.648 m); minimum daily, 14,100 ft^3/s (399 m^3/s) Sept. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27500	53400	53000	63600	48200	74700	82500	40000	31500	33300	27600	25300
2	23200	48000	48900	66200	43200	66700	92800	41400	32500	27100	26200	21600
3	21600	46800	60900	64500	40200	70100	96600	45400	33100	32300	23700	14100
4	25400	50400	58000	61800	30100	115000	176000	45200	29600	27000	16900	14600
5	23100	43700	38300	56600	29900	119000	255000	32600	27000	25900	20500	15100
6	29100	31700	48700	59600	27600	103000	249000	42300	26800	45800	27600	20500
7	29100	31400	51300	61200	34600	100000	248000	44200	31100	35700	23500	41200
8	25600	44300	59900	67600	34300	101000	240000	24600	26400	34800	24400	55400
9	26500	36900	56000	80000	36200	90600	204000	40700	29600	16600	22100	51400
10	26400	35700	56800	99000	30900	104000	155000	51000	21200	11200	23400	47700
11	28700	36000	60300	102000	32400	104000	108000	48700	23600	15300	24900	36600
12	32100	37600	64600	101000	32600	121000	81200	40000	22400	33800	30900	37400
13	36900	38100	60500	101000	32300	150000	67000	41800	34000	35700	26800	38500
14	39600	35900	67400	90900	33300	163000	74000	37000	37900	30400	16300	33900
15	35800	35300	63000	90200	44900	158000	67900	34600	33100	32400	28900	48500
16	24800	35500	75800	86200	46200	148000	36000	36900	28700	40600	29500	57800
17	25200	37900	63100	94400	38400	134000	43000	41800	32400	32600	34500	52400
18	36200	34600	65700	73200	33700	105000	49300	42300	36300	33500	34700	50600
19	33200	37400	60500	65100	26900	90000	47300	39300	33900	23600	41700	57500
20	36500	33300	67100	56600	25700	63500	44200	37000	41100	25800	28400	50700
21	38000	28900	65300	57300	24200	62700	46900	36700	30900	24700	26500	50500
22	30200	39100	60600	59100	25000	52600	50200	37700	34800	26900	29300	52400
23	35700	27300	55200	51600	27500	62100	61900	38700	33400	28700	21100	54900
24	34900	35400	60700	47500	51900	57200	74200	44400	38000	27200	24500	35500
25	50100	28100	61200	46600	72600	45800	64200	44900	28700	29300	22400	25900
26	62100	31400	66100	46700	71600	40300	48900	44300	24400	27600	39600	39000
27	60300	47700	58800	50900	77700	28400	55000	42300	39600	31900	23400	43500
28	56100	28000	58500	53200	78700	40400	48000	41100	28000	32600	19000	45900
29	49500	39900	56100	59200	---	30600	46700	38500	26900	30000	22000	50500
30	63300	56300	47500	48300	---	42200	37800	38600	30400	29400	25400	43800
31	49000	---	51600	46100	---	81300	---	50400	---	26400	26700	---
TOTAL	1115700	1146000	1821400	2107200	1130800	2724200	2950600	1264400	927300	908100	812400	1212700
MEAN	35990	38200	58750	67970	40390	87880	98350	40790	30910	29290	26210	40420
MAX	63300	56300	75800	102000	78700	163000	255000	51000	41100	45800	41700	57800
MIN	21600	27300	38300	46100	24200	28400	36000	24600	21200	11200	16300	14100
CFSM	1.17	1.24	1.91	2.21	1.31	2.85	3.19	1.32	1.00	.95	.85	1.31
IN.	1.35	1.38	2.20	2.54	1.37	3.29	3.56	1.53	1.12	1.10	.98	1.46

CAL YR 1976 TOTAL 17520600 MEAN 47870 MAX 122000 MIN 14400 CFSM 1.55 IN 21.15
WTR YR 1977 TOTAL 18120800 MEAN 49650 MAX 255000 MIN 11200 CFSM 1.61 IN 21.88

03589500 TENNESSEE RIVER AT FLORENCE, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1972 to current year.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965 and 1968.

COOPERATION.--Water-quality samples were collected by the U.S. Geological Survey and were analyzed by the Geological Survey of Alabama.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
DEC											
01...	58600	174	7.8	9.0	11.0	69	12	20	4.6	7.3	.4
APR											
14...	83100	138	7.0	17.5	8.8	55	8	17	2.9	3.7	.2
AUG											
30...	10000	171	7.5	28.5	6.3	66	9	19	4.5	6.3	.3

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)
DEC											
01...	1.6	70	0	13	8.4	.1	4.0	95	15000	.50	2.2
APR											
14...	1.4	58	0	9.6	3.8	1.0	3.6	75	16800	.59	2.6
AUG											
30...	1.5	70	0	14	8.3	.1	5.2	100	2700	1.5	6.6

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
DEC										
01...	1	<1	ND	<1	0	2	27	ND	70	10
APR										
14...	--	<1	ND	1	40	<1	27	<.2	50	20
AUG										
30...	1	<1	ND	<1	ND	2	13	<.2	90	30

03591800 BEAR CREEK NEAR HACKLEBURG, AL

LOCATION.--Lat 34°17'01", long 87°46'26", in SW¼ sec. 11, T. 9 S., R. 12 W., Marion County, Hydrologic Unit 06030006, on right bank at downstream side of bridge on Alabama Highway 172, 2 mi (3.2 km) upstream from Bluff Creek, 3.5 mi (5.6 km) east of Hackleburg, and at mile 104.8 (168.6 km).

DRAINAGE AREA.--143 mi^2 (370 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is 646.50 ft (197.053 m) above mean sea level.

REMARKS.--Water-discharge records good.

AVERAGE DISCHARGE.--21 years, 280 ft^3/s (7.930 m^3/s), 26.55 in/yr (675 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,000 ft^3/s (688 m^3/s) Mar. 16, 1973, gage height, 39.00 ft (11.887 m); minimum, 6.1 ft^3/s (0.17 m^3/s) Sept. 18, 19, 1956.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,000 ft^3/s (85 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 24	0545	5180	147	16.36	4.987	Mar. 12	1345	6240	177	18.39	5.605
Mar. 4	0915	*15400	436	*30.03	9.153	Apr. 4	1915	4970	141	15.94	4.859

Minimum daily discharge, 14 ft^3/s (0.40 m^3/s) Sept. 3-5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	110	206	240	157	554	244	90	85	18	32	15
2	25	89	162	214	153	425	258	80	55	17	30	15
3	23	76	130	223	152	1140	1090	80	50	16	27	14
4	21	64	109	247	146	12100	3880	75	79	16	25	14
5	19	54	94	249	142	2780	2660	93	67	15	30	14
6	92	48	85	293	128	1570	1090	94	42	15	28	15
7	90	43	85	558	112	1120	685	68	34	15	25	58
8	46	40	85	404	99	748	498	57	34	15	24	62
9	37	38	74	1220	102	556	377	58	30	15	21	36
10	34	37	66	1430	103	456	312	48	28	15	20	74
11	30	37	67	621	100	400	250	49	27	20	22	79
12	27	38	159	423	125	4490	230	45	26	24	26	41
13	25	38	226	349	190	2210	200	41	27	25	20	27
14	24	38	191	582	169	993	180	39	192	39	20	38
15	23	40	161	577	141	661	160	41	81	32	19	76
16	22	42	147	422	123	494	150	40	51	25	24	58
17	22	43	126	318	111	403	140	37	42	26	58	44
18	22	41	109	305	110	363	130	35	38	75	42	36
19	20	40	97	255	110	320	120	31	36	44	30	40
20	21	39	174	258	104	351	120	30	32	30	24	48
21	23	42	239	233	98	305	110	38	30	26	20	40
22	24	44	190	204	94	273	100	38	28	28	19	34
23	25	43	159	178	599	252	250	32	27	41	18	30
24	25	40	139	295	3730	245	220	35	25	35	17	30
25	175	37	541	314	1170	238	180	43	20	33	17	44
26	214	42	810	269	670	229	150	65	20	55	16	377
27	93	131	418	257	1510	221	130	49	20	63	28	266
28	62	233	316	242	855	242	120	69	21	38	25	222
29	51	420	252	212	---	291	100	77	20	34	21	133
30	82	252	232	173	---	276	90	44	20	32	18	260
31	167	---	272	186	---	254	---	194	---	31	17	---
TOTAL	1592	2279	6121	11751	11303	34960	14224	1815	1287	913	763	2240
MEAN	51.4	76.0	197	379	404	1128	474	58.5	42.9	29.5	24.6	74.7
MAX	214	420	810	1430	3730	12100	3880	194	192	75	58	377
MIN	19	37	66	173	94	221	90	30	20	15	16	14
CFSM	.36	.53	1.38	2.65	2.83	7.89	3.32	.41	.30	.21	.17	.52
IN.	.41	.59	1.59	3.06	2.94	9.09	3.70	.47	.33	.24	.20	.58

CAL YR 1976 TOTAL 74361 MEAN 203 MAX 1800 MIN 13 CFSM 1.42 IN 19.34
WTR YR 1977 TOTAL 89248 MEAN 245 MAX 12100 MIN 14 CFSM 1.71 IN 23.22

03591800 BEAR CREEK NEAR HACKLEBURG, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses: December 1965 to September 1967, October 1976 to current year.
WATER TEMPERATURES: March 1965 to March 1973.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 31.0°C on several days in 1966 and 1969; minimum, 0.0°C on several days in 1966, 1969, and 1970.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965, 1968, 1969, 1972-74.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)
NOV												
30...	239	48	6.7	3.0	--	19	9	4.9	1.6	2.0	.2	2.2
JAN												
17...	286	42	6.5	1.5	15.2	12	7	2.2	1.5	1.6	.2	1.2
MAR												
14...	918	32	6.0	12.5	11.0	11	8	2.6	1.0	1.4	.2	1.0
APR												
11...	293	36	6.4	17.0	10.0	11	6	2.6	1.1	1.4	.2	1.2
MAY												
17...	36	44	7.7	21.0	9.8	15	0	3.6	1.3	2.1	.2	1.4
JUN												
24...	24	59	7.1	28.0	--	22	5	5.5	1.9	2.0	.2	2.1
AUG												
09...	18	77	6.8	29.0	8.1	31	12	8.2	2.6	2.3	.2	.9
SEP												
13...	27	--	6.8	24.0	7.8	40	19	7.1	5.3	1.6	.1	2.5

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)
NOV											
30...	12	0	4.6	3.2	.0	4.1	32	20.6	.70	3.1	1
JAN											
17...	7	0	12	2.6	.0	3.7	33	25.5	1.2	5.3	ND
MAR											
14...	4	0	4.2	2.0	.0	4.6	22	54.5	.79	3.5	<1
APR											
11...	7	0	3.4	2.2	.0	3.6	22	17.4	.68	3.0	1
MAY											
17...	20	0	2.0	3.0	.1	2.1	26	2.53	.43	1.9	2
JUN											
24...	21	0	5.4	3.9	.0	1.6	34	2.20	.25	1.1	<1
AUG											
09...	24	0	6.0	3.4	.1	3.0	42	2.04	.77	3.4	1
SEP											
13...	25	0	21	2.5	.1	2.9	60	4.37	.88	3.9	ND

03591800 BEAR CREEK NEAR HACKLEBURG, AL--continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)
NOV											
30...	<1	ND	<1	200	2	82	ND	20	10	--	--
JAN											
17...	<1	ND	1	40	1	82	<.2	20	20	--	--
MAR											
14...	ND	ND	<1	90	<1	78	ND	20	<5	--	--
APR											
11...	<1	ND	<1	2300	ND	83	ND	20	10	--	--
MAY											
17...	1	ND	1	230	ND	30	ND	40	40	--	--
JUN											
24...	ND	ND	ND	190	ND	110	<.2	40	20	--	--
AUG											
09...	<1	ND	<1	240	ND	90	<.2	60	40	--	--
SEP											
13...	<1	ND	2	10	<1	890	.6	90	30	.224	.025

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)
OCT			
19...	20	--	12.5
DEC			
06...	78	45	5.0
JAN			
24...	347	--	4.0
MAR			
16...	481	--	13.0

03592000 BEAR CREEK NEAR RED BAY, AL

LOCATION.--Lat 34°26'38", long 88°06'56", in NE¼ sec. 21, T. 7 S., R. 15 W., Franklin County, Hydrologic Unit 06030006, on left bank 185 ft (56 m) upstream from bridge on State Highway 24, 108 ft (73 m) shoreward from top of bank, 1.8 mi (2.9 km) east of Red Bay, and at mile 61.9 (99.6 km).

DRAINAGE AREA.--263 mi^2 (681 km^2).

PERIOD OF RECORD.--August 1913 to May 1920, July 1958 to September 1967. October 1967 to September 1968 (annual maximum only). March 1969 to current year. Prior to October 1918 monthly discharge only, published in WSP 1306.

REVISED RECORDS.--WSP 1306: 1920(M). WSP 1726: 1920 (corrected monthly means).

GAGE.--Water-stage recorder. Datum of gage is 506.42 ft (154.357 m) above mean sea level, levels by Tennessee Valley Authority. August 1913 to May 1920, nonrecording gage at site 0.7 mi (1.1 km) upstream at various datums. July 1, 1958, to Oct. 27, 1959, nonrecording gage, Oct. 28, 1959, to Sept. 30, 1967, water-stage recorder at site 185 ft (56 m) downstream at present datum.

REMARKS.--Records good. Flow partially regulated by Bear Creek Dam 12.5 mi (20.1 km) upstream since Mar. 14, 1967. Records of specific conductance and water temperatures for the water year 1977 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--23 years (water years 1913-19, 1958-67, 1970-77), 492 ft^3/s (13.93 m^3/s), 25.40 in/yr (645 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 34,800 ft^3/s (986 m^3/s) Mar. 17, 1973, gage height, 17.62 ft (5.371 m); minimum daily discharge, 10 ft^3/s (0.28 m^3/s) Aug. 15-17, Sept. 17, 1918.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,000 ft^3/s (113 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 5	1215	*8580	243	*15.42	4.700	Mar. 13	1545	7800	221	15.28	4.657

Minimum daily discharge, 19 ft^3/s (0.54 m^3/s) Dec. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	219	71	368	56	1920	343	177	221	37	85	34
2	70	184	30	363	113	1860	342	165	229	40	84	34
3	66	106	26	335	214	1600	435	169	218	36	83	33
4	61	162	23	262	214	1980	1550	183	100	36	80	31
5	58	117	21	296	212	3020	915	177	85	35	75	33
6	79	104	21	377	210	2560	1870	186	40	35	60	51
7	105	92	21	475	209	2650	1870	246	23	35	54	46
8	152	40	21	681	207	1900	1870	236	31	36	50	38
9	110	36	19	858	193	2090	1810	230	34	42	47	53
10	86	39	139	1110	148	2160	1770	70	39	37	47	68
11	75	41	652	1620	146	2110	1730	119	38	36	45	141
12	69	44	649	1540	159	5190	1680	89	37	36	45	140
13	64	42	553	1420	186	4860	1630	87	40	39	44	52
14	64	43	358	1260	258	3980	1570	85	74	42	44	40
15	61	45	53	1060	72	2340	1530	85	224	43	50	173
16	58	45	32	1030	32	2050	1470	84	227	87	80	464
17	59	130	27	847	331	2000	1140	83	268	83	82	84
18	56	372	25	425	296	1950	613	83	247	232	75	78
19	57	207	23	229	89	1900	419	83	204	53	68	84
20	62	115	124	225	87	1860	268	83	85	36	90	82
21	67	99	407	225	95	1810	249	82	81	36	110	45
22	65	97	397	159	137	1750	219	80	76	35	80	37
23	64	97	376	152	241	1710	260	80	42	35	50	37
24	68	94	277	234	719	1670	315	80	38	39	38	40
25	107	90	377	450	1470	1620	460	81	38	85	37	79
26	249	92	503	545	1620	1560	581	83	37	86	40	169
27	299	107	1020	542	1110	1510	376	82	38	83	36	517
28	184	211	1450	425	1660	1330	189	86	37	88	35	895
29	128	393	868	158	---	1030	182	83	36	101	35	912
30	144	496	739	70	---	767	179	83	35	87	35	392
31	177	---	549	62	---	349	---	87	---	86	34	---
TOTAL	3039	3959	9851	17803	10484	65086	27835	3627	2922	1817	1818	4882
MEAN	98.0	132	318	574	374	2100	928	117	97.4	58.6	58.6	163
MAX	299	496	1450	1620	1660	5190	1870	246	268	232	110	912
MIN	56	36	19	62	32	349	179	70	23	35	34	31
CFSM	.37	.50	1.21	2.18	1.42	7.99	3.53	.45	.37	.22	.22	.62
IN.	.43	.56	1.39	2.52	1.48	9.21	3.94	.51	.41	.26	.26	.69

CAL YR 1976 TOTAL 143820 MEAN 393 MAX 1700 MIN 19 CFSM 1.49 IN 20.34
WTR YR 1977 TOTAL 153123 MEAN 420 MAX 5190 MIN 19 CFSM 1.60 IN 21.66

03592200 CEDAR CREEK NEAR PLEASANT SITE, AL

LOCATION.--Lat 34°32'56", long 88°01'09", in SW¼ sec. 9, T. 6 S., R. 14 W., Franklin County, Hydrologic Unit 06030006, on left bank downstream side of pier of highway bridge, 2.6 mi (4.2 km) east of Pleasant Site, 4.3 mi (6.9 km) upstream from Little Bear Creek, and at mile 19.1 (30.7 km).

DRAINAGE AREA.--189 mi^2 (490 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1957 to Sept. 30, 1977. Discontinued.

GAGE.--Water-stage recorder. Datum of gage is 482.67 (147.118 m) above mean sea level.

REMARKS.--Water-discharge records good.

AVERAGE DISCHARGE.--20 years, 341 ft^3/s (9.657 m^3/s), 24.50 in/yr (622 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27,100 ft^3/s (767 m^3/s) Mar. 16, 1973, gage height, 28.02 ft (8.540 m); minimum daily, 1.6 ft^3/s (0.045 m^3/s) Aug. 31, 1962.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 21, 1955, reached a stage of 24.4 ft (7.44 m), discharge, 17,900 ft^3/s (507 m^3/s) from flood profiles furnished by Tennessee Valley Authority.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,500 ft^3/s (99.1 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 24	0545	4560	129	13.83	4.215	Mar. 12	1315	7730	219	17.54	5.346
Mar. 4	2215	*10400	295	*19.81	6.038	Apr. 4	2115	8610	244	18.36	5.596

Minimum daily discharge, 1.7 ft^3/s (0.048 m^3/s) Sept. 3, 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	211	274	252	166	522	256	108	97	23	21	3.4
2	62	164	229	213	160	426	250	101	57	28	16	2.7
3	53	135	196	225	158	1190	1020	103	44	19	12	1.7
4	46	118	173	278	154	8890	6520	137	36	17	10	1.7
5	40	101	154	284	147	6380	5900	145	32	17	11	4.2
6	135	90	143	349	135	2350	1370	108	32	17	9.0	12
7	158	82	145	559	129	1370	916	97	38	12	9.5	54
8	94	76	135	372	124	950	703	92	31	10	7.1	66
9	76	71	118	1690	122	747	572	90	24	12	8.0	33
10	64	68	110	1850	118	623	490	80	20	17	5.9	8.5
11	56	65	120	641	118	544	428	74	17	28	5.9	15
12	48	69	421	461	164	5990	383	71	16	22	9.0	10
13	42	65	319	383	185	4340	337	65	18	23	5.9	20
14	39	64	235	638	152	1260	300	64	35	23	6.3	33
15	37	66	207	572	133	930	266	62	35	16	11	31
16	36	62	190	404	122	736	233	62	33	11	12	12
17	39	58	166	327	118	618	207	72	789	12	43	12
18	38	54	149	304	116	557	194	59	311	12	20	12
19	38	53	135	272	114	487	181	54	241	11	12	12
20	50	58	739	254	108	461	168	48	114	13	9.5	11
21	54	66	433	235	106	419	166	44	99	15	9.5	10
22	43	61	284	215	104	385	219	47	71	11	5.9	10
23	41	56	239	204	736	353	862	57	57	61	4.5	10
24	92	52	209	282	4080	335	459	90	46	26	4.2	10
25	582	49	809	321	1080	319	213	59	39	19	3.6	9.0
26	431	77	930	258	631	306	175	54	38	22	3.6	12
27	211	160	451	241	1210	300	154	48	40	15	2.3	13
28	152	1080	349	223	697	359	139	46	35	12	3.1	12
29	118	874	290	196	---	370	129	47	31	29	2.7	54
30	436	366	250	179	---	317	120	41	27	44	4.5	100
31	359	---	294	173	---	296	---	200	---	34	3.6	---
TOTAL	3752	4571	8896	12855	11387	43130	23330	2425	2503	631	291.6	595.2
MEAN	121	152	287	415	407	1391	778	78.2	83.4	20.4	9.41	19.8
MAX	582	1080	930	1850	4080	8890	6520	200	789	61	43	100
MIN	36	49	110	173	104	296	120	41	16	10	2.3	1.7
CFSM	.64	.80	1.52	2.20	2.15	7.36	4.12	.41	.44	.11	.05	.11
IN.	.74	.90	1.75	2.53	2.24	8.49	4.59	.48	.49	.12	.06	.12

CAL YR 1976 TOTAL 98370.6 MEAN 269 MAX 4050 MIN 6.5 CFSM 1.42 IN 19.36
WTR YR 1977 TOTAL 114366.8 MEAN 313 MAX 8890 MIN 1.7 CFSM 1.66 IN 22.51

03592200 CEDAR CREEK NEAR PLEASANT SITE, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1976 to current year.
WATER TEMPERATURES: January 1963 to April 1972.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 32.0°C on several days in 1966 amd 1969; minimum, freezing point on several days during 1963-71.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965, 1968, 1971-76.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)
DEC												
01...	268	350	8.1	5.0	--	150	19	53	3.8	6.2	.2	3.0
JAN												
17...	319	318	7.8	2.0	14.8	130	7	48	3.3	4.6	.2	2.2
MAR												
15...	886	200	7.3	13.0	10.9	96	6	35	2.0	2.6	.1	1.2
APR												
14...	330	259	7.8	19.0	10.0	120	14	44	2.4	3.1	.1	1.5
MAY												
17...	60	275	8.2	22.0	--	130	7	46	2.4	3.7	.1	1.7
JUN												
27...	45	268	7.8	26.5	9.0	--	--	--	--	--	--	--
AUG												
09...	46	279	7.7	28.5	7.2	120	14	42	3.0	5.4	.2	1.8
SEP												
13...	22	333	8.0	24.0	7.9	140	16	50	3.5	9.3	.3	1.9

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)
DEC											
01...	160	0	9.0	14	.0	5.3	178	129	1.1	4.8	1
JAN											
17...	150	0	6.8	9.2	.0	4.6	155	134	.59	2.6	ND
MAR											
15...	110	0	6.0	4.8	.0	6.8	116	277	.90	4.0	1
APR											
14...	130	0	5.6	5.6	.1	5.1	133	119	.43	1.9	2
MAY											
17...	150	0	4.0	6.8	.1	4.2	147	23.9	.79	3.5	<1
JUN											
27...	--	--	--	--	--	--	--	--	--	--	--
AUG											
09...	130	0	3.2	12	.1	5.8	140	17.4	.59	2.6	1
SEP											
13...	150	0	7.4	20	.1	6.3	173	10.3	.04	.18	1

03592200 CEDAR CREEK NEAR PLEASANT SITE, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)
DEC											
01...	<1	ND	<1	30	1	45	ND	130	<5	--	--
JAN											
17...	<1	ND	1	ND	1	57	ND	130	10	--	--
MAR											
15...	<1	ND	1	60	1	18	<.2	90	20	--	--
APR											
14...	<1	ND	1	10	<1	32	<.2	120	20	--	--
MAY											
17...	<1	ND	1	10	ND	47	<.2	150	20	--	--
JUN											
27...	--	--	--	--	--	--	--	--	--	--	--
AUG											
09...	<1	ND	1	160	ND	75	<3.0	160	50	--	--
SEP											
13...	<1	ND	1	ND	<1	50	ND	190	10	4.32	.277

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)
OCT			
18...	40	--	13.5
DEC			
20...	1270	--	7.0

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)
AUG			
19...	19	--	27.0

03592300 LITTLE BEAR CREEK NEAR HALLTOWN, AL

LOCATION.--Lat 34°29'19", long 88°02'07", in NW¼ sec. 5, T. 7 S., R. 14 W., Franklin County, Hydrologic Unit 06030006, near right bank on downstream side of highway bridge, 2.7 mi (4.3 km) northeast of Halltown, and at mile 4.3 (6.9 km).

DRAINAGE AREA.--78.2 mi^2 (202.5 km^2).

PERIOD OF RECORD.--August 1957 to Sept. 30, 1977. Discontinued.

GAGE.--Water-stage recorder. Datum of gage is 499.30 ft (152.187 m) above mean sea level.

REMARKS.--Records good. Flow regulated by reservoir 7.0 mi (11.2 km) upstream beginning Oct. 30, 1975. Records of specific conductance and water temperatures for the water year 1977 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--20 years, 144 ft^3/s (4.078 m^3/s), 25.01 in/yr (635 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,400 ft^3/s (578 m^3/s) Mar. 16, 1973, gage height, 18.18 ft (5.541 m); minimum daily discharge, 3.3 ft^3/s (0.093 m^3/s) Oct. 6, 14, 1963.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 28, 1951, reached a stage of 11.7 ft (3.57 m), discharge, 3,640 ft^3/s (103 m^3/s); flood of Mar. 21, 1955, reached a stage of 13.7 ft (4.18 m), discharge, 6,800 ft^3/s (193 m^3/s); from flood profiles furnished by Tennessee Valley Authority.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,500 ft^3/s (42.5 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 4	0145	2020	57.2	8.51	2.594	Mar. 12	0545	2870	81.3	10.00	3.048

Minimum daily discharge, 4.8 ft^3/s (0.136 m^3/s) Aug. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	191	114	27	23	51	50	80	38	22	14	7.0
2	25	189	112	26	26	43	51	77	40	22	13	9.0
3	23	291	92	28	23	330	115	75	33	20	13	9.8
4	22	270	62	28	25	819	447	81	32	19	12	8.7
5	21	322	60	72	27	428	554	81	29	18	11	9.8
6	32	377	61	254	20	655	516	77	29	17	13	12
7	31	373	61	257	23	664	440	72	29	17	7.6	16
8	29	371	59	252	22	655	373	70	26	17	9.8	13
9	27	399	58	348	26	629	323	65	25	16	12	11
10	25	496	58	303	19	364	280	61	25	13	15	12
11	24	568	62	275	23	451	245	57	24	15	11	10
12	23	596	71	238	27	1490	215	53	20	14	11	11
13	21	587	65	172	24	792	190	51	24	20	12	11
14	21	582	60	188	24	832	191	49	26	20	7.0	13
15	20	574	65	136	23	773	153	46	28	17	7.0	15
16	21	563	53	80	27	723	139	44	28	19	11	16
17	19	555	24	77	24	734	127	43	56	17	18	15
18	17	463	25	77	23	744	117	41	54	17	15	15
19	18	246	19	77	23	716	107	40	51	16	9.8	18
20	21	204	56	67	21	697	101	38	45	17	11	16
21	19	201	36	43	22	165	101	38	41	11	9.5	15
22	19	142	31	27	22	64	113	34	38	13	12	14
23	22	60	27	27	28	59	158	35	35	17	11	14
24	21	59	26	32	51	56	136	33	33	13	5.5	14
25	38	59	70	30	72	54	119	36	30	14	4.8	19
26	46	63	57	29	60	52	108	34	29	15	5.0	30
27	45	63	43	28	73	52	100	36	27	13	6.2	40
28	41	102	36	27	54	59	93	35	26	15	8.7	49
29	42	84	33	26	---	55	88	33	24	21	9.2	54
30	71	88	29	26	---	52	83	33	23	16	9.8	63
31	201	---	29	26	---	50	---	38	---	14	10	---
TOTAL	1031	9138	1654	3303	855	13308	5833	1586	968	515	324.9	560.3
MEAN	33.3	305	53.4	107	30.5	429	194	51.2	32.3	16.6	10.5	18.7
MAX	201	596	114	348	73	1490	554	81	56	22	18	63
MIN	17	59	19	26	19	43	50	33	20	11	4.8	7.0
CFSM	.43	3.90	.68	1.37	.39	5.49	2.48	.66	.41	.21	.13	.24
IN.	.49	4.35	.79	1.57	.41	6.33	2.77	.75	.46	.24	.15	.27

CAL YR 1976 TOTAL 28295.0 MEAN 77.3 MAX 596 MIN 13 CFSM .99 IN 13.46
WTR YR 1977 TOTAL 39076.2 MEAN 107 MAX 1490 MIN 4.8 CFSM 1.37 IN 18.59

03592500 BEAR CREEK AT BISHOP, AL

LOCATION.--Lat 34°39'21", long 88°07'21", in SE¼ sec. 5, T. 5 S., R. 15 W., Colbert County, Hydrologic Unit 06030006, on left bank 250 ft (76 m) upstream from highway bridge, 0.5 mi (0.8 km) downstream from Cedar Creek, 0.8 mi (1.3 km) southwest of Bishop, and at mile 27.3 (43.9 km).

DRAINAGE AREA.--667 mi^2 (1,728 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1926 to June 1928, February 1929 to March 1932, June 1933 to current year.

REVISED RECORDS.--WSP 698: 1929. WSP 823: Drainage area. WSP 853: 1927, 1928(M), 1929, 1930(M), 1932(M).

GAGE.--Water-stage recorder. Datum of gage is 419.91 ft (127.989 m) above mean sea level. Nonrecording gage prior to June 23, 1928, and Feb. 10, 1929, to Mar. 31, 1932, at site 35 ft (11 m) downstream, and June 7, 1933, to May 28, 1934, at bridge 20 ft (6 m) downstream at datum 5.00 ft (1.524 m) lower.

REMARKS.--Water-discharge record good. Flow partially regulated by Bear Creek Reservoir, 47.3 mi (76.1 km) upstream beginning Mar. 14, 1969.

AVERAGE DISCHARGE.--47 years (water years 1926-27, 1929-31, 1933-77), 1129 ft^3/s (31.97 m^3/s), 22.99 in/yr (584 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 60,800 ft^3/s (1,720 m^3/s) Mar. 17, 1973, gage height, 24.12 ft (7.352 m), in gage well; 25.2 ft (7.67 m) from floodmarks 20 ft (6.1 m) upstream from gage; minimum discharge, 9.3 ft^3/s (0.26 m^3/s) Sept. 15-17, 1954; minimum gage height, -0.15 ft (-0.046 m) Sept. 1, 1943.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 7,500 ft^3/s (212 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 4	1845	17700	501	*17.78	5.419	Apr. 4	2230	14200	402	16.84	5.133
Mar. 12	2300	13800	391	16.71	5.093						

Minimum daily discharge, 53 ft^3/s (1.50 m^3/s) Sept. 2, 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	237	816	1050	924	533	2740	696	463	259	116	170	59
2	205	734	670	745	493	2610	726	436	321	113	156	56
3	185	644	537	745	487	3270	1890	425	321	117	145	53
4	172	734	425	792	484	14700	10500	463	293	104	140	53
5	159	692	375	780	472	14500	11000	508	203	98	138	61
6	209	764	355	1040	454	9930	5050	448	166	96	108	69
7	316	737	365	1750	431	7910	3830	425	166	93	90	100
8	282	718	345	1610	425	5350	3360	451	157	88	81	125
9	291	677	314	2710	419	4290	3030	428	148	128	78	119
10	248	757	298	4740	406	3740	2790	403	126	181	79	100
11	209	857	403	3070	362	3040	2600	288	107	111	82	100
12	187	942	1210	2770	417	8780	2450	279	104	109	77	159
13	166	929	1220	2420	502	11400	2320	259	95	103	74	185
14	161	929	916	2710	466	6680	2210	243	125	195	75	229
15	155	924	711	2540	484	5140	2100	235	138	136	81	169
16	148	907	475	1940	330	3910	1990	226	270	113	140	316
17	152	886	367	1680	275	3620	1860	220	475	226	140	458
18	148	911	319	1260	508	3460	1140	214	1200	271	140	196
19	143	836	293	890	475	3310	886	209	655	259	118	279
20	174	609	1170	711	311	3220	703	199	406	150	163	286
21	181	533	1220	670	291	2910	626	195	266	111	184	194
22	170	493	960	644	291	2310	749	189	224	103	176	143
23	159	328	832	637	385	2200	951	190	197	101	129	112
24	241	291	730	700	4510	2130	1690	200	163	123	99	110
25	1020	282	1260	911	3720	2060	881	200	136	100	73	535
26	1050	328	2470	929	2840	1980	942	200	120	137	66	1600
27	655	469	1580	938	2930	1920	840	200	110	147	66	1170
28	560	1300	2010	890	2760	1970	641	200	110	336	63	1360
29	422	2310	1530	696	---	1590	511	210	110	248	58	1270
30	1020	1260	1160	595	---	1360	484	230	110	210	59	1020
31	1200	---	1130	623	---	812	---	230	---	188	60	---
TOTAL	10625	23597	26700	44060	26461	142842	69446	9066	7281	4611	3308	10686
MEAN	343	787	861	1421	945	4608	2315	292	243	149	107	356
MAX	1200	2310	2470	4740	4510	14700	11000	508	1200	336	184	1600
MIN	143	282	293	595	275	812	484	189	95	88	58	53
CFSM	.51	1.18	1.29	2.13	1.42	6.91	3.47	.44	.36	.22	.16	.53
IN.	.59	1.32	1.49	2.46	1.48	7.97	3.87	.51	.41	.26	.18	.60

CAL YR 1976 TOTAL 358901 MEAN 981 MAX 6180 MIN 143 CFSM 1.47 IN 20.02
WTR YR 1977 TOTAL 378683 MEAN 1037 MAX 14700 MIN 53 CFSM 1.56 IN 21.12

03592500 BEAR CREEK AT BISHOP, AL--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: February 1962 to current year.

INSTRUMENTATION.--Temperature recorder since February 1962.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965, 1966, 1968, 1969, and 1972.

COOPERATION.--Temperature records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 31.0°C on several days in 1966 and 1969; minimum, 0.0°C Dec. 26, 27, 1963, Jan. 1-3, 1964, on several days during January and February 1977.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 29.5°C July 7, 8, 23, Aug. 13; minimum, 0.0°C on several days during January and February.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	20.0	19.0	11.0	10.0	5.0	4.0	2.0	1.0	0.5	0.0	10.0	9.5
2	20.0	18.5	11.0	9.5	6.0	4.5	1.5	1.0	1.5	0.0	10.5	9.5
3	19.5	19.0	11.5	10.0	5.5	5.0	1.5	0.5	1.5	0.5	10.5	10.0
4	19.5	19.0	11.5	10.0	5.5	4.5	3.0	1.0	5.5	3.5	11.5	10.0
5	20.0	19.5	10.0	9.0	5.5	5.0	3.5	2.0	5.5	4.5	11.5	10.5
6	20.0	18.5	10.0	9.0	6.5	5.5	3.5	3.5	5.0	4.0	10.5	9.5
7	18.5	17.0	11.0	10.0	7.0	6.5	3.5	3.0	4.5	3.0	10.0	9.5
8	17.0	15.5	10.5	9.5	6.5	5.0	3.0	2.0	4.0	2.0	10.5	9.5
9	16.0	15.0	10.5	9.5	5.5	4.5	3.5	2.0	4.5	2.0	10.5	10.0
10	15.5	14.5	12.0	10.5	5.5	4.5	3.5	2.0	5.5	3.0	11.5	10.5
11	15.5	14.5	11.5	10.0	6.5	5.5	2.0	0.5	6.5	4.5	13.0	11.5
12	15.5	15.0	10.5	10.0	8.0	6.5	1.5	1.0	8.0	5.5	14.5	13.0
13	16.0	15.0	10.0	9.5	8.0	6.5	2.0	1.5	9.0	7.0	14.0	12.0
14	16.5	15.5	9.5	9.5	6.5	6.0	3.5	2.0	9.0	7.0	13.0	11.5
15	16.5	16.0	10.0	9.5	7.0	6.0	3.5	3.0	8.5	6.5	13.5	12.0
16	16.5	15.5	9.5	9.5	7.0	6.5	3.5	1.0	7.0	6.0	13.5	13.0
17	15.5	14.5	10.0	9.5	6.5	6.0	1.0	0.0	7.0	5.5	13.0	12.0
18	14.5	13.5	10.0	9.5	7.0	6.0	0.0	0.0	8.5	6.0	14.5	13.0
19	14.0	13.5	10.0	9.5	8.0	6.5	0.0	0.0	8.5	7.0	14.0	13.0
20	14.0	12.0	10.5	9.5	9.0	8.0	0.0	0.0	8.0	6.0	13.5	13.0
21	12.0	11.5	10.0	9.0	8.5	4.5	1.0	0.0	7.0	5.5	13.5	13.0
22	12.0	11.0	9.0	7.0	4.5	3.5	1.0	0.0	9.0	6.0	13.0	12.0
23	12.0	11.5	7.0	6.0	4.0	3.0	1.0	0.5	10.0	8.5	13.0	11.5
24	13.5	12.0	7.0	6.0	4.0	3.0	1.5	1.0	10.5	10.0	13.5	11.5
25	14.5	13.5	8.0	6.0	5.0	3.5	3.0	1.5	11.0	10.0	14.5	13.0
26	14.0	13.0	10.0	8.0	5.5	4.5	3.0	1.5	12.0	10.5	14.5	13.5
27	13.0	11.0	11.5	10.0	5.5	5.0	4.0	3.0	12.0	11.0	15.5	14.0
28	11.0	10.0	11.0	7.0	5.5	5.0	3.5	1.5	11.0	9.5	16.0	15.0
29	10.5	10.0	7.0	5.0	5.0	4.5	1.5	0.0	---	---	16.0	15.5
30	11.0	10.0	5.0	4.5	5.0	4.5	0.0	0.0	---	---	18.0	16.0
31	11.0	10.5	---	---	4.5	2.0	0.5	0.0	---	---	18.0	16.5
MONTH	20.0	10.0	12.0	4.5	9.0	2.0	4.0	0.0	12.0	0.0	18.0	9.5

03592500 BEAR CREEK AT BISHOP, AL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	16.5	16.0	20.0	19.0	---	---	28.5	27.0	26.0	25.5	28.0	26.0
2	16.5	16.0	19.5	19.0	24.5	23.0	29.0	26.5	26.5	25.0	28.0	25.5
3	16.5	15.5	20.0	19.0	24.0	22.0	27.0	25.5	26.0	25.0	28.5	25.5
4	15.5	14.5	20.0	19.0	24.0	22.0	28.0	25.5	26.5	25.5	28.5	25.5
5	14.5	12.0	21.5	19.5	24.5	23.0	28.0	26.0	27.0	25.5	26.5	25.5
6	13.5	11.0	22.0	20.5	25.5	24.0	28.5	26.5	28.0	26.0	26.0	25.0
7	15.0	13.0	23.5	21.0	24.5	23.5	29.5	27.0	28.5	26.5	25.5	24.5
8	15.5	14.5	24.0	22.0	23.5	22.0	29.5	28.0	29.0	26.5	26.0	24.5
9	15.5	14.5	23.0	21.5	23.5	22.0	29.0	26.5	29.0	27.0	26.0	25.0
10	16.0	14.5	21.5	20.0	24.5	22.0	28.0	26.0	29.0	27.0	26.5	25.0
11	16.0	15.0	20.5	18.5	25.0	23.0	27.0	26.0	29.0	26.5	26.5	24.5
12	16.5	15.5	20.5	18.5	26.0	24.0	27.0	25.5	29.0	26.5	24.5	24.0
13	16.5	15.5	20.5	18.5	26.5	25.0	29.0	26.0	29.5	26.5	25.0	24.5
14	17.0	15.5	21.0	19.0	25.5	24.5	28.0	26.0	28.5	27.0	25.0	24.5
15	17.0	16.0	21.5	20.0	24.5	24.0	29.0	27.0	28.5	26.5	25.0	24.0
16	18.0	16.0	22.0	20.5	24.5	24.0	29.0	27.0	28.0	26.0	24.5	23.5
17	18.5	16.5	22.0	21.5	24.5	21.5	29.0	25.0	28.0	26.0	24.5	23.5
18	18.5	18.0	23.0	22.0	24.0	21.5	26.5	25.0	27.0	25.5	24.5	24.0
19	19.5	18.5	23.5	22.0	25.0	23.0	27.0	26.0	26.5	25.0	24.5	23.0
20	20.0	19.0	24.0	23.0	25.5	24.0	28.0	26.0	25.5	25.0	23.5	23.0
21	19.5	19.0	24.0	23.5	26.0	24.5	28.5	26.5	25.5	24.5	23.5	22.0
22	19.0	18.5	24.0	23.5	27.0	25.5	29.0	27.0	26.0	25.0	24.0	23.0
23	19.0	18.0	23.5	23.0	27.0	26.0	29.5	27.0	26.0	25.0	23.5	22.0
24	18.5	16.5	23.5	22.0	28.5	26.5	29.0	27.0	27.0	25.0	23.0	21.5
25	18.0	16.5	23.0	21.5	28.0	27.0	28.5	28.0	28.0	25.5	22.0	20.5
26	16.5	16.0	---	---	28.0	26.5	28.0	27.0	29.0	26.0	21.5	20.5
27	17.0	15.5	---	---	27.0	26.0	28.5	27.0	29.0	26.5	---	---
28	18.0	16.0	---	---	28.0	26.5	27.0	24.5	28.5	26.5	---	---
29	18.5	18.0	---	---	28.0	26.5	25.0	24.5	28.5	26.0	---	---
30	20.0	18.5	---	---	28.5	27.0	26.5	25.0	28.0	26.0	---	---
31	---	---	---	---	---	---	26.5	25.5	28.5	26.0	---	---
MONTH	20.0	11.0	24.0	18.5	28.5	21.5	29.5	24.5	29.5	24.5	28.5	20.5

RESERVOIRS IN TENNESSEE RIVER BASIN

03574000 GUNTERSVILLE LAKE.--Lat 34°25'17", long 86°23'34", sec. 14, T. 7 S., R. 2 E., Marshall County, Hydrologic Unit 06030001, in powerhouse at Guntersville Dam on Tennessee River, 11 mi (17.7 km) northwest of Guntersville, and at mile 349.0 (561.5 km). DRAINAGE AREA, 24,450 mi^2 (63,330 km^2), approximately. PERIOD OF RECORD, October 1938 to current year. GAGE, water-stage recorder. Datum of gage is at mean sea level.

Reservoir is formed by concrete dam with riprapped earth embankments. Spillway equipped with eighteen 2-section lift gates 40.44 ft (12.32 m) high by 50 ft (15.24 m) wide. Dam completed and storage began Jan. 16, 1939; water in reservoir first reached minimum navigation pool elevation Jan. 27, 1939. Total level pool capacity at elevation 595.44 ft (181.490 m) (top of gates) is 530,400 ft^3/s-day (1,298 hm^3), of which 86,900 ft^3/s-day (212.6 hm^3) is controlled flood storage above elevation 593.00 ft (180.746 m) (minimum navigation pool). Reservoir is used for navigation, flood control, and power. Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD: Maximum elevation 596.29 ft (181.749 m) Mar. 2, 1944; minimum (after start of operation plan in April 1940, 590.65 ft (180.030 m) Nov. 12, 1968. Contents based on backwater profile.

EXTREMES FOR CURRENT YEAR: Maximum midnight contents during year, 621,000 ft^3/s-day (1,520 hm^3) Apr. 5; maximum elevation, 595.15 ft (181.402 m) Mar. 14; minimum midnight contents, 420,000 ft^3/s-day (1,028 hm^3) Oct. 5, minimum elevation 591.90 ft (180.411 m) Oct. 19.

03586000 WHEELER LAKE.--Lat 34°47'52", long 87°22'51", SW¼ sec. 9, T. 3 S., R. 8 W., Lawrence County, Hydrologic Unit 06030005, at Wheeler Dam on Tennessee River, 0.8 mi (1.29 km) upstream from Big Nance Creek, 30.1 mi (48.4 km) downstream from Decatur, 74.1 mi (119.2 km) downstream from Guntersville Dam, and at mile 274.9 (442.3 km). DRAINAGE AREA, 29,590 mi^2 (76,640 km^2), approximately. PERIOD OF RECORD, September 1936 to current year. GAGE, water-stage recorder. Datum of gage is at mean sea level.

Reservoir is formed by concrete dam with 60 radial gates 15 ft (4.57 m) high by 40 ft (12.2 m) wide and 2 trashway gates 6 ft (1.82 m) high by 37.5 ft (11.4 m) wide. Storage began Oct. 3, 1936; water in reservoir first reached minimum pool elevation Dec. 10, 1936. Total level pool capacity at elevation 556.28 ft (169.554 m) (top of gates) is 540.000 ft^3/s-day (1,321 hm^3) of which 177,000 ft^3/s-day (433 hm^3) is controlled flood storage above elevation 550.00 ft (167.640 m) (ordinary minimum pool). Reservoir is used for navigation, flood control, and power. Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD: Maximum elevation 557.32 ft (169.871 m) Mar. 1, 1944; minimum (after start of operation plan in August 1937) 548.43 ft (167.162 m) Dec. 9, 1962. Contents based on backwater profile.

EXTREMES FOR CURRENT YEAR: Maximum midnight contents during year 666,000 ft^3/s-day (1,630 hm^3) Apr. 24; maximum elevation 556.15 ft (169.515 m) Apr. 24, minimum midnight contents 371,000 ft^3/s-day (907.8 hm^3) Feb. 7; minimum elevation 549.77 ft (167.570 m) Jan. 19.

03589000 WILSON LAKE.--Lat 34°47'46", long 87°37'27", in SE¼ sec. 18, T. 3 S., R. 10 W., Colbert County, Hydrologic Unit 06030005, at cooling-water intake at Wilson Dam on Tennessee River, 2.9 mi (4.7 km) southeast of Florence, 4.1 mi (6.6 km) upstream from Cypress Creek, 15.5 mi (24.9 km) downstream from Wheeler Dam, and at mile 259.4 (417.4 km). DRAINAGE AREA, 30,750 mi^2 (79,642 km^2), approximately. PERIOD OF RECORD, April 1924 to current year. Prior to August 1926 monthend contents only, published in WSP 1306. GAGE, water-stage recorder. Datum of gage is at mean sea level.

Reservoir is formed by concrete gravity dam with fixed ogee crest. Spillway equipped with 58 Stoney gates 20.54 ft (6.26 m) [18.77 ft (5.72 m) prior to June 1941] high by 38 ft (11.6 m) wide. Storage began Apr. 14, 1924. Revised capacity table used after Dec. 31, 1970. Total capacity at elevation 507.88 ft (154.802 m) (top of gates) is 323,200 ft^3/s-day (791 hm^3) of which 29,800 ft^3/s-day (72.9 hm^3) is controlled flood storage above elevation 504.50 ft (153.772 m) (minimum pool). Reservoir is used for navigation, flood control, and power. Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 329,800 ft^3/s-day (807 hm^3) Apr. 29, 1963; maximum elevation, 508.35 ft (154.945 m) Feb. 11, 1948; minimum contents, 233,200 ft^3/s-day (571 hm^3) Apr. 6, 1927, elevation, 501.30 ft (152.796 m).

EXTREMES FOR CURRENT YEAR: Maximum contents during year, 322,600 ft^3/s-day (789.4 hm^3) Sept. 27; elevation, 507.89 ft (154.796 m) Oct. 17; minimum 294,500 ft^3/s-day (720.6 hm^3) Mar. 25, elevation, 504.31 ft (153.714 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

Date	Elevation (feet)	Contents (cfs-day)	Change in contents (cfs-day)	Elevation (feet)	Contents (cfs-day)	Change in contents (cfs-day)	Elevation (feet)	Contents (cfs-day)	Change in contents (cfs-day)
	03574000 GUNTERSVILLE LAKE *			03586000 WHEELER LAKE *			03589000 WILSON LAKE		
Sept. 30.....	592.10	418,300	.....	553.21	439.700	.....	507.14	316,900	.....
Oct. 31.....	592.65	441,000	+ 22,700	552.44	423,000	- 16,700	507.40	318,900	+ 2,100
Nov. 30.....	593.30	462,000	+ 21,000	551.35	405,000	- 18,000	507.40	318,900	.....
Dec. 31.....	593.35	461,000	- 1,000	550.71	389,000	- 16,000	505.50	303,800	- 15,100
CAL YR 1976	.....	.....	- 15,000	.....	.....	+101,600	.....	.....	- 3,700
Jan. 31.....	593.30	456,000	- 5,000	550.59	381,000	- 8,000	505.60	304,600	+ 800
Feb. 28.....	593.98	482,000	+ 26,000	551.83	415,000	+ 34,000	505.95	307,300	+ 2,700
Mar. 31.....	594.65	519,000	+ 37,000	552.72	454,000	+ 39,000	505.29	302,100	- 5,200
Apr. 30.....	594.90	516,000	- 3,000	555.74	526,000	+ 72,000	507.31	318,200	+ 16,100
May 31.....	594.85	512,000	- 4,000	555.32	508,000	- 18,000	506.80	314,100	- 4,100
June 30.....	594.35	497,000	- 15,000	555.76	526,000	+ 18,000	506.35	310,500	- 3,600
July 31.....	594.10	487,000	- 10,000	554.77	487,000	- 39,000	507.25	317,700	+ 7,200
Aug. 31.....	593.40	463,000	- 24,000	553.91	463,000	- 24,000	506.60	312,500	- 5,200
Sept. 30.....	593.34	462,000	- 1,000	553.25	446,000	- 17,000	507.30	318,100	+ 5,600
WTR YR 1977	.....	.....	+ 43,700	.....	.....	+ 6,300	.....	+ 34,500 - 33,200	+ 1,300

* Contents based on backwater profile.

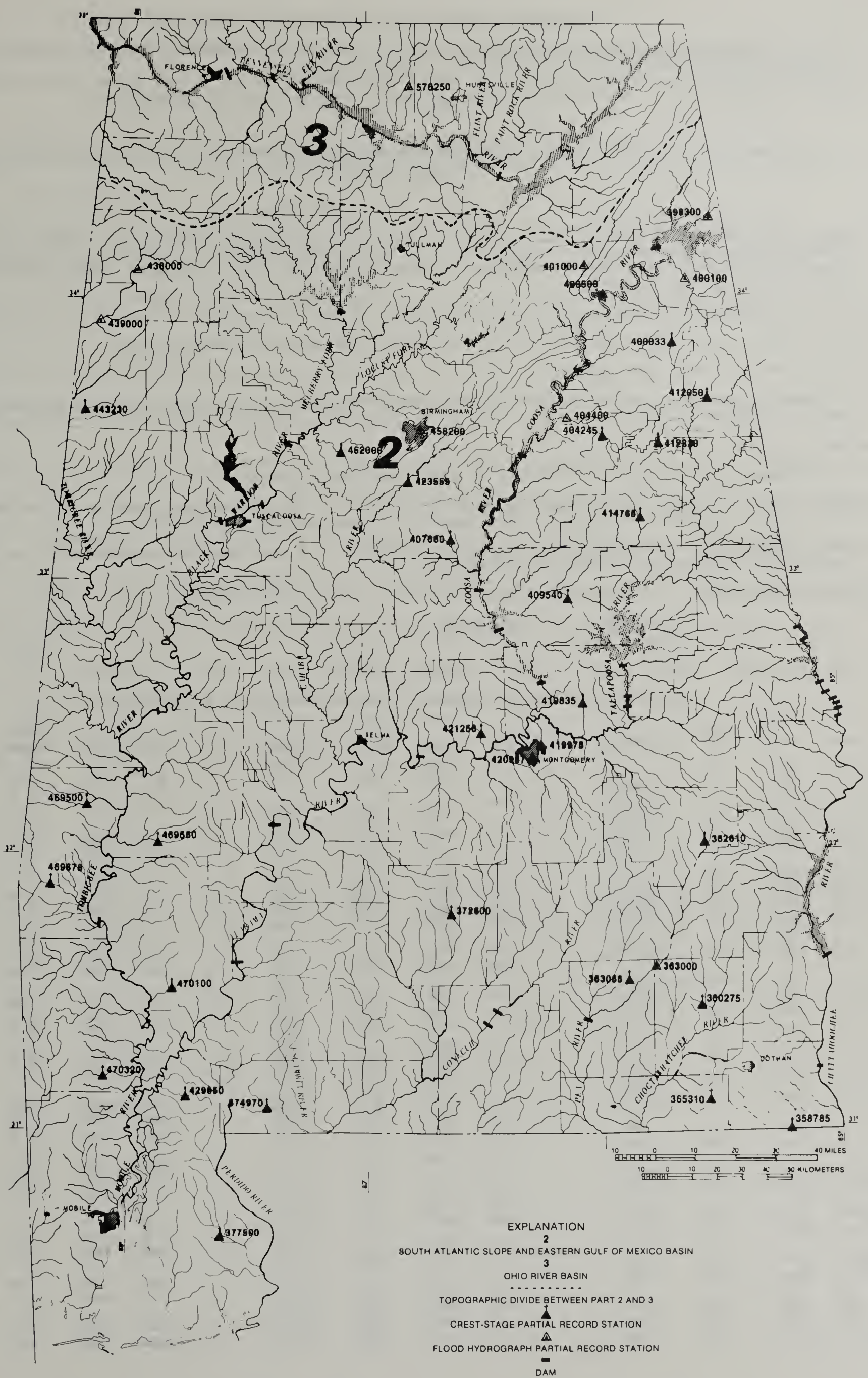

Figure 6.--Map of Alabama showing location of partial-record stations.

The data given in the following tables generally comprise a description of the station and a table showing time, gage height, and discharge at selected times for major peaks that occurred during the year.

The description of the station gives the location, drainage area, period of record, type and history of gages, extremes of discharge and general remarks. The explanation of data presented is identical to that for gaging stations.

Flood hydrograph partial-record stations

CHOCTAWHATCHEE RIVER BASIN

02363000 PEA RIVER NEAR ARITON, AL

LOCATION.--Lat 31°35'41", long 85°46'59", in SW¼ sec. 7, T. 7 N., R. 23 E., Dale County, Hydrologic Unit 03140202, on left bank at downstream side of abandoned bridge, and about 20 ft (6 m) upstream from bridge on U.S. Highway 231, 2.2 mi (3.5 km) downstream from Bryors Mill Creek, 2.8 mi (4.5 km) downstream from Atlantic Coast Line Railroad bridge, 3.5 mi (5.6 km) west of Ariton, and at mile 89.6 (144.2 km).

DRAINAGE AREA.--492 mi^2 (1,274 km^2).

PERIOD OF RECORD.--October 1938 to September 1970 (October 1970 to current year flood hydrograph only).

REVISED RECORDS.--WSP 1384: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 246.72 ft (75.200 m) above mean sea level. Prior to Nov. 22, 1938, nonrecording gage at same site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--32 years (1938-70),615 ft^3/s (17.42 m^3/s), 16.98 in/yr (431 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 47,600 ft^3/s (1,350 m^3/s) Feb. 18, 1975, gage height, 24.38 ft (7.431 m). 1938-70: Minimum discharge, 6.5 ft^3/s (0.18 m^3/s) Sept. 14, 1968, gage height, 1.60 ft (0.488 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1900, about 25 ft (7.6 m), present site and datum, March 1929, from information by local residents (discharge not determined).

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 4,000 ft^3/s (113 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 25	0600	*4,440	126	*12.74	3.883

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1977

DATE	TIME	GAGE HEIGHT	DISCHARGE
11-27	0200	4.07	820
11-27	1000	4.11	837
11-27	1400	4.60	1,040
11-27	1900	5.32	1,340
11-27	2100	5.34	1,340
11-27	2400	5.24	1,300
11-28	0900	5.32	1,340
11-28	1100	6.11	1,610
11-28	1400	7.81	2,170
11-28	2400	8.61	2,440
11-29	2400	10.38	3,130
11-30	1300	11.22	3,510
11-30	2000	11.17	3,490
11-30	2400	11.11	3,460
12-01	0300	11.08	3,440
12-01	2400	10.83	3,320
12-02	0100	10.80	3,300
12-02	2400	9.48	2,770
12-03	0100	9.39	2,740
12-03	2400	7.24	2,000
12-04	0100	7.16	1,970
12-04	2400	5.77	1,490
12-05	0100	5.73	1,480
12-05	2400	4.79	1,120
12-06	0100	4.76	1,110
12-06	2400	4.22	882
3-04	0600	4.90	1,170
3-04	1300	6.74	1,830
3-04	1600	6.89	1,890
3-04	2400	6.64	1,800
3-05	2400	7.34	2,030
3-06	2400	8.18	2,290
3-07	2400	9.59	2,820
3-08	0600	9.69	2,860
3-08	2100	8.90	2,550
3-08	2400	8.66	2,460
3-09	0100	8.56	2,430
3-09	2400	6.79	1,850
3-10	0100	6.73	1,830
3-10	2100	6.09	1,610
3-10	2400	6.10	1,610
3-11	0100	6.09	1,610
3-11	2400	5.74	1,480
3-12	1500	5.77	1,490
3-12	2100	7.71	2,140
3-12	2400	7.90	2,200
3-13	0100	7.91	2,200
3-13	2400	7.76	2,150
3-14	0200	7.80	2,290
3-14	2400	8.02	2,380
3-15	1200	8.40	2,530
3-15	2400	9.06	2,790
3-16	0100	9.10	2,810
3-16	0800	9.24	2,870
3-16	1600	9.00	2,770
3-16	2400	8.42	2,540
3-17	0600	7.90	2,330
3-17	1500	7.15	2,030
3-17	2400	6.52	1,780
3-18	0400	6.28	1,680
3-18	1400	5.75	1,470
3-18	2400	5.34	1,260
3-19	1000	5.00	1,170
3-19	2400	4.64	1,020
3-21	1300	4.09	806
3-21	1800	4.82	1,100
3-21	2400	5.94	1,550
3-22	0100	5.96	1,550
3-22	1000	5.78	1,480
3-22	2400	6.10	1,610
3-23	1200	6.50	1,770
3-23	2400	7.02	1,980
3-24	0800	8.03	2,380
3-24	1600	10.03	3,180
3-24	2400	12.24	4,190
3-25	0600	12.74	4,440
3-25	1200	12.39	4,260
3-25	2400	10.48	3,360
3-26	0700	9.10	2,810
3-26	1300	8.08	2,400
3-26	2400	6.76	1,870
3-27	1000	6.00	1,570
3-27	2400	5.26	1,270
3-28	0400	5.10	1,210
3-28	1600	4.70	1,050

MOBILE RIVER BASIN

02398300 CHATTOOGA RIVER ABOVE GAYLESVILLE, AL

LOCATION.--Lat 34°17'25", long 85°30'33", in NW¼ sec.5, T.9 S., R.11 E., Cherokee County, Hydrologic Unit 03150105, on left bank 10 ft (3.0 m) upstream from bridge on county road (revised), 600 ft (183 m) downstream from Mills Creek and 3.5 mi (5.6 km) northeast of Gaylesville.

DRAINAGE AREA.--368 mi^2 (953 km^2).

PERIOD OF RECORD.--January 1959 to September 1967. October 1967 to September 1971 (annual maximum only). October 1971 to current year (flood hydrograph only).

REVISED RECORDS.--WSP 1906: Location.

GAGE.--Water-stage recorder. Datum of gage is 562.11 ft (171.331 m) above mean sea level (Alabama Power Company bench mark). December 4, 1958 to July 20, 1959, nonrecording gage at same site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--8 years (1960-67), 670 ft^3/s (18.97 m^3/s) 24.72 in/yr (628 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,500 ft^3/s (467 m^3/s) Mar. 5, 1966, gage height, 22.03 ft (6.715 m); 1959-67, minimum daily discharge, 115 ft^3/s (3.26 m^3/s) Oct. 25 to Nov. 3, 1961, Sept. 25, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 30, 1951, reached a stage of 23.5 ft (7.16 m) from flood-marks.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,000 ft^3/s (142 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 14	1000	7,800	221	17.90	5.456	Apr. 5	0600	*12,800	362	*20.42	6.224
Mar. 31	2200	10,700	303	19.43	5.922						

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1977

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
3-12	0800	6.94	747	3-16	1600	8.29	1,250	4-03	0600	12.46	3,540
3-12	1200	7.48	939	3-16	2400	8.00	1,140	4-03	1200	14.36	4,850
3-12	1600	11.32	2,840					4-03	1800	14.80	5,160
3-12	2000	14.76	5,130	3-29	1200	6.78	692	4-03	2400	15.00	5,300
3-12	2400	16.33	6,360	3-29	1800	7.11	806				
				3-29	2400	10.86	2,560	4-04	0600	15.34	5,570
3-13	0400	16.98	6,880					4-04	1200	15.72	5,870
3-13	0800	17.18	7,080	3-30	0600	12.70	3,700	4-04	1400	15.88	6,000
3-13	1200	17.31	7,200	3-30	1200	13.81	4,460	4-04	1600	16.30	6,340
3-13	2000	17.38	7,270	3-30	1800	14.58	5,000	4-04	1800	17.22	7,110
3-13	2400	17.50	7,390	3-30	2400	15.26	5,500	4-04	2400	19.73	11,300
3-14	0400	17.71	7,600	3-31	0600	16.02	6,120	4-05	0400	20.39	12,800
3-14	0800	17.85	7,750	3-31	1200	17.13	7,030	4-05	0600	20.42	12,800
3-14	1000	17.90	7,800	3-31	1800	18.65	9,160	4-05	0800	20.39	12,800
3-14	1200	17.88	7,780	3-31	2200	19.43	10,700	4-05	1200	20.14	12,200
3-14	1600	17.62	7,510	3-31	2400	19.14	10,200	4-05	1800	19.58	11,000
3-14	2000	17.06	6,960					4-05	2400	19.08	10,000
3-14	2400	16.08	6,160	4-01	0600	18.72	9,310				
				4-01	1200	17.93	7,830	4-06	0600	18.86	9,600
3-15	0400	13.16	4,010	4-01	1800	16.58	6,560	4-06	1200	18.60	9,000
3-15	0800	11.00	2,650	4-01	2400	13.26	4,080	4-06	1800	18.08	8,000
3-15	1200	9.78	1,940					4-06	2400	17.21	7,000
3-15	1600	9.37	1,740	4-02	0600	10.19	2,170				
3-15	2000	9.12	1,620	4-02	1200	9.53	1,820	4-07	1200	13.47	3,500
3-15	2400	8.90	1,520	4-02	1800	9.24	1,670	4-07	2400	11.74	2,400
				4-02	2400	9.00	1,560				
3-16	0800	8.58	1,380					4-08	2400	10.91	1,900

MOBILE RIVER BASIN

02400100 TERRAPIN CREEK AT ELLISVILLE, AL

LOCATION.--Lat 39°03'54", long 85°36'51", in SW¼ sec. 20, T.11 S., R.10 E., Cherokee County, Hydrologic Unit 03150105, on right bank 40 ft (12 m) downstream from bridge (revised), 0.2 mi (0.3 km) southwest of Ellisville, 17 mi (27.4 km) south southeast of Centre, and at mile 6.7 (10.8 km).

DRAINAGE AREA.--258 mi^2 (668 km^2).

PERIOD OF RECORD.--October 1962 to September 1967. October 1967 to September 1972 (annual maximum only). (October 1972 to current year, flood hydrograph only).

GAGE.--Water-stage recorder. Datum of gage is 539.07 ft (164.309 m) above mean sea level.

REMARKS.--Records good.

AVERAGE DISCHARGE.--5 years (1962-67), 410 ft^3/s (11.61 m^3/s) 21.58 in/yr (548 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,700 ft^3/s (473 m^3/s) Mar. 4, 1974, gage height, 19.07 ft (5.812 m); 1962-67, minimum discharge, 80 ft^3/s (2.3 m^3/s) Sept. 11, 29, 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,000 ft^3/s (113 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 15	Unknown	7,910	224	15.9	4.85	Apr. 5	0700	*8,400	238	*16.12	4.913
Mar. 31	Unknown	6,940	197	15.4							

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1977

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
1-06	0200	5.33	229	1-10	0100	10.03	2200	4-04	0600	10.92	2640
1-06	1600	5.30	223	1-10	0300	9.77	2070	4-04	1300	10.26	2310
1-06	1900	5.56	282	1-10	0800	8.57	1490	4-04	1500	10.28	2320
1-06	2200	5.59	289	1-10	1200	8.15	1300	4-04	1600	10.67	2520
1-06	2400	5.62	297	1-10	1500	8.04	1250	4-04	1700	12.27	3360
				1-10	2000	7.51	1010	4-04	1800	13.70	4430
				1-10	2400	7.19	866	4-04	1900	14.18	4960
1-07	0300	6.11	433					4-04	2300	15.02	6260
1-07	0600	6.16	450					4-04	2400	15.31	6810
1-07	1100	6.20	464	1-11	0700	6.84	712				
1-07	1700	6.37	522	1-11	0800	6.83	707				
1-07	2100	6.37	522	1-11	1000	7.02	789	4-05	0300	15.93	7990
1-07	2400	6.33	508	1-11	1600	7.19	866	4-05	0700	16.12	8400
				1-11	2200	6.74	669	4-05	1000	15.53	7230
				1-11	2400	6.64	626	4-05	1100	15.07	6350
1-08	0100	6.31	501					4-05	1400	13.97	4650
1-08	2000	5.96	386					4-05	1900	12.76	3670
1-08	2400	5.92	375	4-02	0100	9.21	1790	4-05	2400	11.89	3130
				4-02	2400	8.69	1540				
1-09	0700	5.84	354					4-06	0100	11.74	3050
1-09	1000	5.98	391	4-03	0100	8.74	1560	4-06	0900	10.88	2620
1-09	1100	6.10	430	4-03	0600	9.90	2130	4-06	2400	9.88	2120
1-09	1200	6.27	488	4-03	0900	10.85	2610				
1-09	1500	6.97	767	4-03	1400	10.95	2660				
1-09	1600	7.33	929	4-03	1600	11.93	3150	4-07	0100	9.84	2100
1-09	1700	7.95	1210	4-03	1800	12.70	3640	4-07	2400	9.23	1800
1-09	2100	9.53	1950	4-03	2000	12.84	3730				
1-09	2400	10.07	2220	4-03	2400	12.11	3250				
								4-08	0100	9.22	1790
								4-08	2400	8.78	1580

MOBILE RIVER BASIN

MOBILE RIVER MAIN STEM

02400500 COOSA RIVER AT GADSDEN, AL

LOCATION.--Lat 34°00'37", long 85°59'52", in NE¼ sec. 10, T. 12 S., R.6 E., Etowah County, Hydrologic Unit 03150106, near midstream in pier of Etowah County Memorial Bridge on Forrest Avenue in Gadsden, 450 ft (137 m) downstream from Louisville & Nashville Railroad bridge, 1.5 mi (2.4 km) upstream from Big Wills Creek, and at mile 174.8 (281.3 km).

DRAINAGE AREA.--5,800 mi^2 (15,000 km^2), approximately.

PERIOD OF RECORD.--October 1926 to September 1976. October 1976 to current year (flood hydrograph only). Gage-height records collected at same site since 1890 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 682: Drainage area. WSP 1906: 1944, 1947-49, 1951-52, 1954, 1958.

GAGE.--Water-stage recorder. Datum of gage is 485.97 ft (148.124 m) above mean sea level. Prior to Oct. 1, 1926, nonrecording gage on Louisville & Nashville Railroad bridge 450 ft (137 km) upstream at datum 115 ft (0.351 m) higher. Oct. 1, 1926, to Mar. 31, 1932, water-stage recorder, and Apr. 1, 1932, to May 23, 1935, nonrecording gage, at present site and datum. Since May 4, 1965, auxiliary water-stage recorder 2.2 mi (3.5 km) upstream from base gage at present datum.

REMARKS.--Water-discharge record good except for discharges less than 5,000 ft^3/s (142 m^3/s, which are poor. Since December 1949, flow regulated by Allatoona Reservoir 158.8 mi (255.5 km) upstream (station 02393500) and since April 1961, by Weiss Reservoir 31.5 mi (50.7 km) upstream (station 02399499).

AVERAGE DISCHARGE.--50 years, (1926-76), 9,468 ft^3/s (268 m^3/s), 22.17 in/yr (563 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 76,900 ft^3/s (2,180 m^3/s) Apr. 11, 1936, gage height, 31.13 ft (9.488 m); minimum daily, 100 ft^3/s (2.83 m^3/s), many days in water year 1967.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 6, 1886, reached a stage of 37.9 ft (11.55 m), from flood-marks established by Corps of Engineers (discharge, 115,000 ft^3/s (3,260 m^3/s) from rating curve extended above 80,000 ft^3/s (2,270 m^3/s). Flood of July 15, 1916, reached a stage of 32.7 ft (9.97 m), discharge, 85,000 ft^3/s (2,410 m3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 54,000 ft^3/s (15.29 m^3/s) Apr. 6; maximum gage height, 27.26 ft (8.309 m).

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, MEAN VALUE, 1977

DATE	GAGE HEIGHT	DISCHARGE	DATE	GAGE HEIGHT	DISCHARGE	DATE	GAGE HEIGHT	DISCHARGE
1-03	19.13	9270	3-10	19.45	15600	4-07	25.07	50600
1-04	19.17	9920	3-11	19.04	13400	4-08	24.94	47900
1-05	19.24	9310	3-12	19.67	15500	4-09	23.61	47400
1-06	19.12	9050	3-13	21.23	29100	4-10	23.45	47100
1-07	19.24	12300	3-14	22.30	30700	4-11	23.34	46700
1-08	19.36	8370	3-15	22.00	36500	4-12	23.26	46500
1-09	19.44	14400	3-16	21.78	31600	4-13	23.12	46100
1-10	21.11	25600	3-17	21.71	28300	4-14	22.97	45400
1-11	21.57	26400	3-18	21.47	26600	4-15	22.81	44500
1-12	21.40	25700	3-19	21.30	25800	4-16	22.63	43500
1-13	20.99	22800	3-20	21.25	25800	4-17	23.00	39400
1-14	20.20	18000	3-21	21.34	25700	4-18	22.12	28200
1-15	19.81	16600	3-22	21.57	25700	4-19	21.14	22100
1-16	19.70	16300	3-23	21.48	25500	4-20	20.37	18900
1-17	19.38	14100	3-24	20.82	21800	4-21	20.18	16000
1-18	19.25	11500	3-25	20.16	20600	4-22	20.26	16100
1-19	18.73	11600	3-26	19.67	17100	4-23	20.22	15900
1-20	18.92	10800	3-27	19.02	12400	4-24	20.65	19600
1-21	18.94	10800	3-28	19.21	11600	4-25	21.69	20400
1-22	19.00	8910	3-29	19.71	14500	4-26	21.70	19200
1-23	19.15	6200	3-30	21.56	29300	4-27	21.47	19200
			3-31	22.19	37600	4-28	21.29	17800
			4-01	23.05	41400	4-29	21.18	16300
3-05	19.67	10100	4-02	22.97	42400	4-30	21.14	12900
3-06	19.85	16000	4-03	23.19	43700			
3-07	20.57	21700	4-04	24.10	47100			
3-08	20.52	21500	4-05	27.03	51900			
3-09	19.96	18700	4-06	26.54	52300			

MOBILE RIVER BASIN

02401000 BIG WILLS CREEK NEAR CRUDUP, AL

LOCATION.--Lat 34°05'53", long 86°02'17", in SE¼ sec. 6, T.11 S., R.6 E., Etowah County, Hydrologic Unit, 03150106, near right bank on upstream side of bridge on county road, 1 mi (1.6 km) upstream from Fisher Creek, 2 mi (3.2 km) west of Crudup, and at mile 25.0 (40.2 km).

DRAINAGE AREA.--185 mi^2 (479 km^2).

PERIOD OF RECORD.--October 1943 to September 1970. (October 1970 to current year, flood hydrograph only).

REVISED RECORDS.--WSP 1384: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage 570 ft (174 m) (by barometer). Prior to July 10, 1957, nonrecording gage at site 100 ft (30 m) downstream at same datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--27 years (1943-70), 304 ft^3/s (8.609 m^3/s) 22.32 in/yr (567 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,800 ft^3/s (419 m^3/s) Mar. 29, 1951, gage height, 14.5 ft (4.42 m) from floodmarks. Minimum observed, 21 ft^3/s (0.59 m^3/s) Sept. 22, 1955, Dec. 5, 1956, gage height, 1.26 ft (0.384 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1884 reached a stage of 16.3 ft (4.97 m) from information by local residents.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,600 ft^3/s (102 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 13	2300	4,920	139	10.88	3.316	Apr. 5	1000	*7,780	220	*12.37	3.770
Mar. 31	1900	5,960	169	11.43	3.484						

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1977

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
2-26	0200	4.66	673	3-05	2200	5.16	838	3-14	0600	10.70	4,620
2-26	0100	4.66	673	3-05	2400	5.16	838	3-14	1500	9.74	3,350
2-26	0500	4.37	583					3-14	2100	8.71	2,410
2-26	1300	4.12	508	3-06	1700	6.17	1,230	3-14	2400	8.15	2,100
2-26	2300	3.94	457	3-06	2400	6.77	1,470				
2-26	2400	3.95	460					3-15	0100	7.95	2,000
				3-07	0900	7.20	1,660	3-15	0600	7.14	1,630
2-27	0200	4.20	532	3-07	1200	7.24	1,680	3-15	1300	6.44	1,340
2-27	0600	4.99	781	3-07	1500	7.16	1,640	3-15	2400	5.79	1,080
2-27	1900	5.94	1,140	3-07	2400	6.44	1,340				
2-27	2400	6.48	1,350					3-16	0100	5.76	1,060
				3-08	0100	6.34	1,300	3-16	1400	5.23	863
2-28	1000	7.26	1,690	3-08	1000	5.63	1,010	3-16	2400	4.93	760
2-28	1600	7.42	1,760	3-08	1800	5.18	845				
2-28	2100	7.03	1,580	3-08	2400	4.96	770	3-17	0100	4.90	750
2-28	2400	6.57	1,390					3-17	2300	4.51	625
				3-09	0100	4.93	760	3-17	2400	4.50	622
3-01	0100	6.40	1,320	3-09	1800	4.54	635				
3-01	0600	5.72	1,050	3-09	2400	4.44	604	3-18	0100	4.48	616
3-01	1100	5.22	859					3-18	2400	4.27	553
3-01	1700	4.87	740	3-10	0100	4.42	598				
3-01	2400	4.64	667	3-10	2400	4.12	508	3-19	0100	4.26	550
								3-19	2100	4.03	482
3-02	0100	4.62	660	3-11	0100	4.12	508	3-19	2400	4.06	491
3-02	1800	4.26	550	3-11	2400	3.98	468				
3-02	2400	4.16	520					3-20	1000	4.14	514
				3-12	0600	4.03	482	3-20	1400	4.17	523
3-03	0100	4.15	517	3-12	0900	4.17	523	3-20	1800	4.14	514
3-03	2300	3.90	446	3-12	1100	4.46	610	3-20	2400	4.10	502
3-03	2400	3.91	449	3-12	1200	4.84	731				
				3-12	1300	5.70	1,040	3-28	1200	3.52	349
3-04	0300	3.90	446	3-12	1500	6.43	1,330	3-28	2400	3.89	443
3-04	0500	4.03	482	3-12	2400	7.98	2,010				
3-04	0700	4.30	562					3-29	0500	3.99	471
3-04	0900	4.64	667	3-13	0400	8.78	2,460	3-29	1100	3.97	466
3-04	2000	5.50	962	3-13	1200	10.41	4,170	3-29	1400	4.01	477
3-04	2400	5.66	1,020	3-13	2000	10.83	4,830	3-29	1600	4.19	529
				3-13	2300	10.88	4,920	3-29	1700	4.39	589
3-05	0900	5.85	1,100	3-13	2400	10.87	4,910	3-29	2100	5.78	1,070
3-05	1000	5.84	1,100					3-29	2400	6.28	1,270
3-05	1600	5.64	1,020	3-14	0200	10.86	4,890				

MOBILE RIVER BASIN

02401000 BIG WILLS CREEK NEAR CRUDUP, AL--CONTINUED

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1977

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
3-30	0600	7.12	1,620	4-01	0500	10.06	3,710	4-04	1000	9.60	3,200
3-30	1600	9.00	2,630	4-01	1200	8.87	2,520	4-04	1400	9.83	3,450
3-30	2200	9.25	2,850	4-01	1900	7.49	1,790	4-04	1500	10.19	3,870
3-30	2400	9.26	2,860	4-01	2400	6.71	1,450	4-04	1900	11.67	6,410
								4-04	2100	12.08	7,200
3-31	0900	9.23	2,830	4-02	0100	6.61	1,410	4-04	2400	11.87	6,790
3-31	1100	9.43	3,030	4-02	0700	6.08	1,190				
3-31	1200	9.66	3,270	4-02	2000	5.42	932	4-05	0300	11.79	6,640
3-31	1300	10.01	3,650	4-02	2400	5.33	899	4-05	0800	12.36	7,760
3-31	1600	11.22	5,560					4-05	1000	12.37	7,780
3-31	1800	11.42	5,940					4-05	1400	12.26	7,560
3-31	1900	11.43	5,960	4-03	0300	5.74	1,060	4-05	2400	11.46	6,010
3-31	2000	11.40	5,900	4-03	1100	6.34	1,300				
3-31	2400	10.85	4,870	4-03	1400	6.94	1,540	4-06	0100	11.35	5,810
				4-03	2300	8.95	2,590	4-06	1200	10.35	4,090
4-01	0100	10.68	4,590	4-03	2400	9.04	2,660	4-06	2400	8.87	2,520

MOBILE RIVER BASIN

02404400 CHOCCOLOCCO CREEK AT JACKSON SHOALS, NEAR LINCOLN, AL

LOCATION.--Lat 33°32'54", long 86°05'49", in SE¼ sec. 15, T. 17 S., R. 5 E., Talladega County, Hydrologic Unit 03150106, on left bank at foot of Jackson Shoals, 50 ft (15 m) upstream from Alabama Power Company Jackson Shoals transformer station, 900 ft (274 m) upstream from highway bridge, 1.8 mi (2.9 km) downstream from Eastaboga Creek, and 4.5 mi (7.2 km) southeast of Lincoln.

DRAINAGE AREA.--484 mi^2 (1,254 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1960 to September 1967, October 1967 to September 1970 (annual maximum only), October 1970 to September 1974 continuous gage-height record in files of Geological Survey, October 1974 to current year (flood hydrograph only).

GAGE.--Water-stage recorder. Datum of gage is 448.50 ft (136.703 m) above mean sea level (Alabama Power Company bench mark).

REMARKS.--Water-discharge records fair.

AVERAGE DISCHARGE.--7 years (water years 1960-1967), 807 ft^3/s (22.85 m^3/s), 22.64 in/yr (575 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 36,900 ft^3/s (1,040 m^3/s) Apr. 30, 1963, gage height, 39.98 ft (12.186 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 1951 reached a stage of 42.4 ft (12.92 m) from floodmarks.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,000 ft^3/s (142 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 12	2200	8060	228	26.74	8.150	Mar.30	0600	*35800	1014	*39.54	12.052
Mar. 22	0100	14200	402	30.95	9.434	Apr. 5	0400	13700	388	30.68	9.351

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1977

DATE	TIME	GAGE HEIGHT	DISCHARGE
3-12	0200	19.77	1,120
3-12	1000	19.88	1,190
3-12	1200	20.26	1,430
3-12	1400	21.60	2,440
3-12	2100	26.52	7,780
3-12	2200	26.74	8,060
3-12	2400	26.64	7,930
3-13	0200	26.57	7,840
3-13	2400	24.42	5,170
3-14	0100	24.35	5,100
3-14	1800	23.96	4,670
3-14	2400	23.48	4,150
3-15	0100	23.34	4,010
3-15	1900	22.14	2,900
3-15	2400	21.99	2,770
3-16	0200	21.94	2,730
3-16	1200	21.66	2,490
3-16	2400	21.32	2,220
3-17	0100	21.30	2,200
3-17	2400	20.90	1,890
3-21	1000	19.78	1,130
3-21	1200	19.96	1,240
3-21	1400	20.63	1,690
3-21	1500	21.41	2,290
3-21	1600	22.88	3,560
3-21	2000	28.45	10,400
3-21	2400	30.72	13,800
3-22	0100	30.95	14,200
3-22	0400	30.61	13,600
3-22	1500	27.28	8,790
3-22	2400	25.42	6,360
3-23	0100	25.32	6,240
3-23	1300	24.18	4,910
3-23	2400	23.36	4,030
3-24	0100	23.29	3,960
3-24	2100	22.21	2,960
3-24	2400	22.12	2,880
3-25	0500	22.05	2,820
3-25	1600	21.61	2,450
3-25	1700	21.80	2,610
3-25	2400	21.50	2,360
3-26	0100	21.49	2,350
3-26	2400	21.09	2,030
3-29	0100	20.62	1,680
3-29	0600	21.09	2,030
3-29	0700	22.45	3,180
3-29	0800	24.47	5,230
3-29	1100	30.20	12,900
3-29	1600	34.71	21,700
3-29	2400	37.71	29,900
3-30	0400	39.16	34,500
3-30	0600	39.54	35,800
3-30	0700	39.41	35,400
3-30	1800	35.96	24,900
3-30	2400	33.14	18,400
3-31	0100	32.73	17,600
3-31	1200	28.29	10,200
3-31	2300	26.05	7,170
3-31	2400	25.94	7,020
4-01	0100	25.81	6,850
4-01	1700	24.49	5,250
4-01	2400	24.16	4,890
4-02	0100	24.12	4,840
4-02	0200	24.03	4,740
4-02	0300	23.00	3,670
4-02	0400	23.99	4,700
4-02	2400	23.52	4,190
4-03	0500	23.75	4,440
4-03	1000	25.65	6,650
4-03	1500	25.97	7,060
4-03	1600	25.10	5,980
4-03	1700	26.06	7,180
4-03	2100	26.09	7,220
4-03	2400	25.93	7,010
4-04	1500	25.24	6,150
4-04	1800	25.83	6,880
4-04	2400	29.61	12,100
4-05	0400	30.68	13,700
4-05	2400	28.82	10,900
4-06	0500	28.77	10,900
4-06	0900	28.86	11,000
4-06	1000	28.88	11,000
4-06	2400	28.12	9,970
4-07	0400	27.87	9,620
4-07	1200	27.47	9,060
4-07	2400	26.55	7,820
4-08	0400	26.23	7,400
4-08	1200	25.59	6,570
4-08	2400	24.60	5,380
4-09	0400	24.31	5,050
4-09	1200	23.82	4,510
4-09	2400	23.03	3,700
4-10	0400	22.74	3,440
4-10	1100	22.31	3,050
4-10	1600	22.06	2,830
4-10	2400	21.70	2,520
4-11	1200	21.35	2,240
4-11	2400	21.09	2,030

MOBILE RIVER BASIN

02438000 BUTTAHATCHEE RIVER BELOW HAMILTON, AL

LOCATION.--Lat 34°06'22", long 87°58'38", on line between secs. 14 and 15, T.11 S., R.14 W., Marion County, Hydrologic Unit 03160103, near right bank on downstream side of bridge on U.S. Highway 78, 0.5 mile (0.8 km) downstream from Woods Creek, 2 miles (3.2 km) south of Hamilton, and at mile 82.6 (132.9 km).

DRAINAGE AREA.--284 mi^2 (736 km^2).

PERIOD OF RECORD.--October 1950 to September 1970 (October 1970 to current year, flood hydrograph only). Monthly discharge only for period October to December 1950, published in WSP 1724.

REVISED RECORDS.--WSP 1384: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 360.50 ft (109.880 m) above mean sea level, (levels by Corps of Engineers). July 7, 1953, to July 10, 1954, nonrecording gage at site 300 ft (91 m) upstream at same datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--20 years (1950-70) 506 ft^3/s (14.33 m^3/s) 24.20 in/yr (615 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 49,500 ft^3/s (1,400 m^3/s) Mar. 16, 1973, gage height 35.49 ft (10.817 m); 1950-70, minimum, 19 ft^3/s (0.54 m^3/s), Sept. 2-5, 15, 1954, gage height, 0.78 ft (0.238 m).

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 7,000 ft^3/s (198 m^3/s) and maximum (*).

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 24	0200	9740	276	15.33	4.673	Apr. 4	2000	9020	255	14.58	4.444
Mar. 4	0900	*27700	784	*28.23	8.605						

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1977

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
2-21	0200	2.63	409	3-02	0100	3.67	905	3-08	2400	4.52	1,360
2-21	2400	2.63	409	3-02	2400	3.33	735				
								4-01	0200	3.03	585
2-22	2400	2.63	409	3-03	1100	3.31	725	4-01	2100	2.96	553
				3-03	1400	3.60	870	4-01	2400	2.96	553
2-23	1800	2.63	409	3-03	1900	5.17	1,730				
2-23	1900	3.35	745	3-03	2000	5.76	2,090	4-02	1900	2.94	544
2-23	2100	8.60	3,870	3-03	2100	9.51	4,580	4-02	2000	3.14	640
2-23	2300	12.88	7,440	3-03	2400	19.77	14,500	4-02	2100	3.85	995
2-23	2400	14.22	8,680					4-02	2400	6.47	2,560
				3-04	0600	26.97	25,100				
2-24	0200	15.33	9,740	3-04	0900	28.23	27.700	4-03	0200	7.37	3,180
2-24	1600	8.79	3,950	3-04	1000	27.81	26,800	4-03	0900	7.58	3,330
2-24	2400	6.63	2,670	3-04	2400	22.03	17,200	4-03	1600	6.64	2,680
								4-03	2000	8.19	3,700
2-25	0100	6.41	2,520	3-05	0100	21.43	16,400	4-03	2400	12.25	6,920
2-25	0800	5.46	1,910	3-05	0400	18.00	12,500				
2-25	2400	4.46	1,330	3-05	0700	12.00	6,720	4-04	0300	13.21	7,740
				3-05	1000	9.19	4,240	4-04	1000	11.09	5,960
2-26	2000	3.91	1,030	3-05	1900	7.17	3,040	4-04	1800	14.49	8,930
2-26	2200	4.87	1,560	3-05	2400	6.84	2,810	4-04	2000	14.58	9,020
2-26	2400	6.22	2,390					4-04	2400	13.92	8,400
				3-06	0800	7.72	3,420				
2-27	0300	7.50	3,270	3-06	0900	7.68	3,400	4-05	0100	13.61	8,110
2-27	0400	7.59	3,330	3-06	2400	6.28	2,430	4-05	1400	8.96	4,020
2-27	1000	7.16	3,030					4-05	2400	6.83	2,800
2-27	2300	5.53	1,950	3-07	0100	6.18	2,360				
2-27	2400	5.45	1,900	3-07	1700	5.32	1,830	4-06	0100	6.71	2,720
				3-07	2400	5.02	1,640	4-06	1400	5.65	2,030
3-01	0100	4.22	1,190					4-06	2400	5.14	1,720
3-01	2400	3.69	915	3-08	0200	5.00	1,630				
				3-08	1800	4.61	1,410	4-07	0100	5.09	1,680
								4-07	2400	4.36	1,290

MOBILE RIVER BASIN

02439000 BUTTAHATCHEE RIVER NEAR SULLIGENT, AL

LOCATION.--Lat 33°55'08", long 88°07'47", in NE¼ sec. 19, T.13 S., R.15 W., Lamar County, Hydrologic Unit 03160103, near left bank on downstream side of bridge on State Highway 17, 1 mi (1.6 km) upstream from Bogue Creek, 1.5 mi (2.4 km) northwest of Sulligent, 2 mi (3.2 km) downstream from Beaver Creek, and at mile 56.7 (91.2 km).

DRAINAGE AREA.--472 mi^2 (1.222 km^2).

PERIOD OF RECORD.--March 1939 to September 1959. October 1959 to September 1960, annual maximum only. October 1971 to current year (flood hydrograph only).

GAGE.--Water-stage recorder. Datum of gage is 287.58 ft (87.654 m) above sea level. Prior to June 1, 1942, nonrecording gage at site 500 ft (152 m) upstream at datum 1.00 ft (0.305 m) higher. July 1, 1942 to September 30, 1971, nonrecording gage at present site and datum. November 3, 1948, to September 30, 1971, supplemental nonrecording gage on side channel at datum 10.00 ft (3.048 m) lower. Since August 12, 1971, supplemental water-stage recorder on side channel at datum 10.00 ft (3.048 m) lower.

REMARKS.--Records good. Discharge figures computed by summation of flow in main and side channels and include flow of unnamed tributary entering river from left bank a short distance downstream from the station.

AVERAGE DISCHARGE.--20 years (March 1939 to September 1959), 747 ft^3/s (21.16 m^3/s) 21.49 in/yr (546 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 60,100 ft^3/s (1,702 m^3/s) Mar. 17, 1973; maximum gage height 17.31 ft (5.276 m) Mar. 17, 1973; 1939-59, minimum discharge observed, 32 ft^3/s (0.906 m^3/s) Sept. 15, 16, 1954, gage height 2.30 ft (0.701 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,000 ft^3/s (113 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 10	2400	6,090	172	14.87	4.532	Mar. 13	0900	10,300	292	15.19	4.630
Feb. 25	0500	7,490	212	15.14	4.615	Apr. 5	1400	9,570	271	15.13	4.612
Mar. 5	0100	*24,200	685	*16.17	4.929						

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
1-06	0200	7.49	734	1-17	0100	10.67	1,350	2-28	0900	14.55	4,350
1-06	2300	7.51	739	1-17	2400	9.24	1,060	2-28	1400	14.45	4,220
1-06	2400	7.56	748					2-28	2400	13.95	3,090
				1-18	0100	9.21	1,050				
1-07	1900	10.03	1,200	1-18	2400	8.94	997	3-01	0100	13.87	2,980
1-07	2200	10.07	1,210					3-01	1800	12.36	1,850
1-07	2400	10.04	1,210	1-19	1400	8.94	997	3-01	2400	11.89	1,660
				1-19	2400	8.93	996				
1-08	0100	10.01	1,200					3-02	0100	11.82	1,640
1-08	2400	8.97	997	1-20	1100	8.93	991	3-02	2400	10.43	1,950
				1-20	1200	8.80	966				
1-09	0900	8.87	983	1-20	1300	8.18	854	3-03	1600	10.25	1,250
1-09	1800	11.86	1,670	1-20	2400	8.17	852	3-03	2000	10.71	1,350
1-09	2400	13.58	2,513					3-03	2100	11.43	1,530
				1-21	0100	8.17	852	3-03	2200	12.60	1,930
1-10	2100	14.84	4,642	1-21	2400	7.71	771	3-03	2300	14.01	2,800
1-10	2400	14.87	6,090					3-03	2400	14.79	4,110
				2-23	1800	5.89	474				
1-11	0100	14.87	4,220	2-23	1900	6.30	549	3-04	0600	14.99	5,740
1-11	1400	14.50	4,720	2-23	2200	8.45	936	3-04	1500	15.26	9,990
1-11	2400	13.48	2,680	2-23	2400	9.10	1,060	3-04	2300	16.16	23,900
								3-04	2400	16.16	24,000
1-12	0100	13.34	2,520	2-24	0200	10.48	1,330				
1-12	1200	11.90	1,900	2-24	0800	13.55	2,490	3-05	0100	16.17	24,200
1-12	2400	10.80	1,380	2-24	1300	14.16	3,090	3-05	1200	15.73	17,800
				2-24	2400	15.04	5,760	3-05	2400	15.21	10,300
1-13	0100	10.72	1,360								
1-13	2400	9.69	1,140	2-25	0500	15.14	7,490	3-06	0100	15.18	8,480
				2-25	1300	15.07	7,190	3-06	2400	14.86	5,400
1-14	1200	10.65	1,350	2-25	2400	14.74	5,150				
1-14	2400	13.00	2,110					3-07	0200	14.85	4,610
				2-26	0100	14.70	4,980	3-07	2400	14.55	4,340
1-15	0900	13.41	2,400	2-26	1600	13.43	2,480				
1-15	1100	13.39	2,390	2-26	2100	13.02	2,180	3-08	0100	14.53	4,280
1-15	2400	12.69	2,050	2-26	2400	13.11	2,250	3-08	2400	13.87	2,720
1-16	0100	12.61	2,020	2-27	2000	14.25	3,292	3-09	0100	13.84	2,770
1-16	2400	10.75	1,370	2-27	2400	14.45	3,730	3-09	2400	12.75	2,010

FLOOD HYDROGRAPH PARTIAL-RECORD STATIONS--Continued

MOBILE RIVER BASIN

02439000 BUTTAHATCHEE RIVER NEAR SULLIGENT, AL

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1977

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
3-10	0100	12.70	2,000	4-02	2000	8.72	951	4-08	0100	13.50	2,520
3-10	2400	11.76	1,630	4-02	2400	9.83	1,180	4-08	2400	12.13	1,800
3-11	0100	11.73	1,620								
3-11	2400	11.13	1,460	4-03	0500	11.27	1,500	4-09	0100	12.08	1,750
				4-03	1400	13.76	2,650	4-09	2400	10.97	1,420
3-12	0300	11.89	1,690	4-03	2400	14.66	4,540				
3-12	1100	14.26	3,330								
3-12	2400	14.94	5,120					4-10	0100	10.93	1,400
				4-04	2400	15.08	8,130	4-10	2400	10.14	1,230
3-13	0800	15.19	5,940	4-05	1400	15.13	9,570				
3-13	0900	15.19	10,300	4-05	2400	15.08	8,190	4-11	0100	10.11	1,220
3-13	2400	15.02	6,820					4-11	2400	9.51	1,100
				4-06	0100	15.07	8,010				
3-14	0100	15.00	6,610	4-06	2400	14.61	4,720	4-12	0100	9.49	1,100
3-14	2400	14.38	3,891					4-12	2400	9.03	1,010
3-15	0100	14.36	3,820	4-07	0100	14.58	4,600				
3-15	1900	13.60	2,580	4-07	2200	13.67	2,660	4-13	0100	9.01	1,000
3-15	2400	13.33	2,370	4-07	2400	13.56	2,570	4-13	2400	8.65	939

MOBILE RIVER BASIN

02458200 VILLAGE CREEK AT APALACHEE STREET IN BIRMINGHAM, AL

LOCATION.--Lat 33°32'45", long 86°47'09", in NE¼ sec. 19, T. 17 S., R. 2 W., Jefferson County, Hydrologic Unit 03160111, at right upstream wingwall of culvert on Apalachee Street in Birmingham, 0.3 mi (0.5 km) upstream from Louisville & Nashville Railroad bridge, 8.7 mi (14 km) upstream from Black Creek, and at mile 33.0 (53.1 km).

DRAINAGE AREA.--15.6 mi^2 (40.30 km^2).

PERIOD OF RECORD.--May 1974 to current year, continuous gage-height record and flood hydrograph records for selected floods in files of Geological Survey; October 1975 to current year (flood hydrograph only).

GAGE.--Water-stage recorder. Datum of gage is 561.31 ft (171.087 m) above mean sea level.

REMARKS.--Records fair. Recording rain gage at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,190 ft^3/s (119 m^3/s) Sept. 6, 1977, gage height 19.60 ft (5.974 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 19, 1970, reached a stage of 20.4 ft (6.22 m) present datum, discharge 4,330 ft^3/s (123 m^3/s), by computation of peak flow through culvert.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 2,200 ft^3/s (62.3 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 23	2125	2760	78.2	14.04	4.279	Apr. 4	1310	2760	78.2	14.03	4.276
Mar. 12	1105	2760	78.2	14.04	4.279	Apr. 4	1850	3850	109	18.35	5.593
Apr. 3	0110	2720	76.5	13.90	4.237	Sept.6	0110	*4190	119	*19.60	5.974

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1977

Date	Time	Gage height	Discharge	Date	Time	Gage height	Discharge	Date	Time	Gage height	Discharge
2-22	1200	4.19	16	3-11	1800	4.47	32	4-2	2200	4.51	35
2-22	2400	4.18	16	3-11	2400	4.43	30	4-2	2230	4.72	53
								4-2	2300	4.98	82
2-23	1200	4.18	16	3-12	0135	4.51	35	4-2	2310	5.92	249
2-23	1500	4.26	20	3-12	0220	4.82	63	4-2	2325	6.66	407
2-23	1550	4.36	25	3-12	0230	5.03	89	4-2	2335	7.31	572
2-23	1600	4.67	48	3-12	0300	5.42	148	4-2	2400	7.99	767
2-23	1610	4.84	66	3-12	0430	5.67	193				
2-23	1700	4.93	76	3-12	0500	6.15	300	4-3	0010	9.05	1,060
2-23	1735	5.16	108	3-12	0600	7.18	537	4-3	0025	10.90	1,710
2-23	1800	5.28	126	3-12	0635	7.38	591	4-3	0035	12.38	2,230
2-23	1900	5.68	195	3-12	0700	7.28	564	4-3	0050	13.44	2,580
2-23	2000	6.23	316	3-12	0730	7.05	503	4-3	0110	13.90	2,720
2-23	2020	7.45	611	3-12	0800	6.66	407	4-3	0145	12.79	2,380
2-23	2030	8.66	954	3-12	0920	7.12	521	4-3	0200	11.79	2,020
2-23	2040	10.78	1,660	3-12	0930	7.80	710	4-3	0220	11.34	1,870
2-23	2050	12.60	2,310	3-12	0940	9.20	1,110	4-3	0225	11.56	1,940
2-23	2125	14.04	2,760	3-12	0950	10.36	1,500	4-3	0250	12.38	2,230
2-23	2200	13.16	2,500	3-12	1010	11.90	2,060	4-3	0315	11.67	1,980
2-23	2230	12.16	2,160	3-12	1030	13.36	2,560	4-3	0330	10.73	1,640
2-23	2300	11.50	1,920	3-12	1105	14.04	2,760	4-3	0345	9.67	1,260
2-23	2330	10.22	1,450	3-12	1130	13.38	2,560	4-3	0400	8.75	979
2-23	2400	8.64	948	3-12	1200	11.98	2,090	4-3	0430	7.48	619
				3-12	1230	10.51	1,560	4-3	0500	6.82	454
2-24	0030	7.43	605	3-12	1300	9.67	1,260	4-3	0600	6.14	298
2-24	0100	6.68	413	3-12	1330	8.73	973	4-3	0700	5.80	220
2-24	0200	5.90	244	3-12	1400	7.84	722	4-3	1000	5.35	137
2-24	0300	5.52	165	3-12	1430	7.17	534	4-3	1020	5.64	188
2-24	0400	5.29	128	3-12	1500	6.73	428	4-3	1030	6.13	296
2-24	0700	4.96	80	3-12	1600	6.15	300	4-3	1040	7.14	526
2-24	1200	4.76	57	3-12	1700	5.83	227	4-3	1050	8.00	770
2-24	1800	4.64	46	3-12	1900	5.52	165	4-3	1130	9.18	1,100
2-24	2400	4.58	41	3-12	2400	5.16	108	4-3	1200	8.88	1,020
								4-3	1230	8.18	819
3-11	0600	4.44	30	3-13	0600	4.97	81	4-3	1300	7.57	644
3-11	0730	4.52	36	3-13	1200	4.86	68	4-3	1400	6.96	482
3-11	0740	4.83	64	3-13	2400	4.72	53	4-3	1500	6.32	334
3-11	0925	4.79	60					4-3	1600	5.94	254
3-11	1000	4.68	49	4-2	0100	4.61	43	4-3	1800	5.57	174
3-11	1200	4.53	37	4-2	1200	4.56	39	4-3	2100	5.31	131

FLOOD HYDROGRAPH PARTIAL-RECORD STATIONS--Continued

MOBILE RIVER BASIN

02458200 VILLAGE CREEK AT APALACHEE STREET IN BIRMINGHAM, AL--Continued

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1977

Date	Time	Gage height	Discharge	Date	Time	Gage height	Discharge	Date	Time	Gage height	Discharge
4-3	2400	5.17	110	4-4	1850	18.35	3,850	9-5	2355	6.73	428
				4-4	1930	17.88	3,720	9-5	2400	8.28	847
4-4	1135	4.98	82	4-4	2000	16.92	3,480				
4-4	1140	5.07	95	4-4	2030	15.31	3,080	9-6	0010	12.58	2,300
4-4	1150	5.57	174	4-4	2045	13.80	2,690	9-6	0020	14.89	2,970
4-4	1200	6.16	302	4-4	2100	12.02	2,110	9-6	0030	15.98	3,240
4-4	1210	8.67	957	4-4	2130	9.90	1,340	9-6	0040	16.91	3,480
4-4	1220	10.76	1,660	4-4	2200	8.73	973	9-6	0050	18.36	3,850
4-4	1230	12.43	2,250	4-4	2230	8.07	789	9-6	0100	19.22	4,080
4-4	1310	14.03	2,760	4-4	2300	7.57	644	9-6	0110	19.60	4,190
4-4	1330	13.58	2,620	4-4	2400	6.99	488	9-6	0130	19.05	4,040
4-4	1340	12.94	2,430					9-6	0140	17.72	3,680
4-4	1350	12.02	2,110	4-5	0100	6.62	396	9-6	0145	16.45	3,360
4-4	1400	10.93	1,720	4-5	0200	6.38	346	9-6	0150	14.83	2,960
4-4	1410	9.97	1,360	4-5	0400	6.03	276	9-6	0155	12.73	2,350
4-4	1420	9.10	1,080	4-5	0600	5.84	230	9-6	0200	10.85	1,690
4-4	1430	8.42	887	4-5	0800	5.67	193	9-6	0205	9.32	1,150
4-4	1440	7.94	752	4-5	1200	5.43	150	9-6	0210	8.19	822
4-4	1450	7.64	664	4-5	1800	5.20	115	9-6	0220	7.00	490
4-4	1510	7.20	542	4-5	2400	5.07	95	9-6	0240	6.23	316
4-4	1520	7.63	661					9-6	0300	5.80	220
4-4	1530	8.26	842	9-5	1200	4.13	14	9-6	0330	5.39	143
4-4	1540	9.90	1,340	9-5	2100	4.17	15	9-6	0400	5.12	102
4-4	1550	12.22	2,180	9-5	2130	4.43	30	9-6	0600	4.74	55
4-4	1600	13.78	2,680	9-5	2140	4.73	54	9-6	0800	4.56	39
4-4	1620	15.04	3,010	9-5	2155	6.23	316	9-6	1200	4.40	28
4-4	1700	16.19	3,300	9-5	2230	5.39	143	9-6	2400	4.23	18
4-4	1800	17.99	3,750	9-5	2300	4.94	77				
				9-5	2330	5.56	173				

TENNESSEE RIVER BASIN

03576250 LIMESTONE CREEK NEAR ATHENS, AL

LOCATION.--Lat 34°45'06", long 86°49'24", in SW¼ sec. 26, T.3 S., R.3 W., Limestone County, Hydrologic Unit 06030003, on downstream side of U.S. Highway 72 bridge between Athens and Huntsville, and at mile 17.0 (27.4 km).

DRAINAGE AREA.--119 mi^2 (308 km^2).

PERIOD OF RECORD.--October 1939 to September 1970. (October 1970 to current year, flood hydrograph only). Prior to October 1966 published by Tennessee Valley Authority, Division of Water Planning, Hydraulic Data Branch.

Gage.--Water-stage recorder. Datum of gage is 626.34 ft (190.908 m) above mean sea level (levels by TVA).

REMARKS.--Records good.

AVERAGE DISCHARGE.--31 years (1939-70) 194 ft^3/s (5.494 m^3/s) 33.14 in/yr (562 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 45,800 ft^3/s (1,300 m^3/s) Mar. 16, 1973, gage height, 17.28 ft (5.267 m); 1939-70, minimum daily, 8.0 ft^3/s (0.227 m^3/s) Sept. 2, 3, 1962.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,200 ft^3/s (90.6 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 4	1400	9,830	378	11.54	3.517	Apr. 5	Unknown	*20400	578	*12.38	3.773
Mar. 12	2000	8,850	251	11.19	3,411						

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1977

DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE	DATE	TIME	GAGE HEIGHT	DISCHARGE
3-01	0200	2.75	366	3-06	2100	4.20	821				
3-01	0100	2.75	366	3-06	2400	4.01	743	3-13	0100	10.12	6,400
3-01	2400	2.39	291					3-13	0500	8.84	4,310
								3-13	0800	7.96	3,280
				3-07	0100	3.96	726	3-13	0900	4.02	747
3-02	0200	2.37	287	3-07	2400	3.16	469	3-13	1000	7.38	2,750
3-02	2400	2.16	243					3-13	1600	5.72	1,540
								3-13	2100	4.78	1,060
				3-08	0100	3.13	460	3-13	2200	4.64	1,000
3-03	1400	2.14	239	3-08	2300	2.76	368	3-13	2300	4.00	739
3-03	2100	2.56	326	3-08	2400	2.75	366	3-13	2400	4.43	916
3-03	2200	2.68	351								
3-03	2300	3.22	489								
3-03	2400	4.82	1,080	3-09	0100	2.73	362	3-14	0100	4.32	871
				3-09	2400	2.49	312	3-14	0900	3.72	649
								3-14	2400	3.21	485
3-04	0300	7.97	3,290								
3-04	1200	11.39	9,410	3-10	0100	2.48	310				
3-04	1400	11.54	9,830	3-10	2400	2.30	272	3-15	0100	3.18	476
3-04	1600	11.40	9,440					3-15	1900	2.85	387
3-04	2300	9.22	4,860					3-15	2400	2.79	374
3-04	2400	8.93	4,420	3-11	1100	2.29	270				
				3-11	1700	2.53	320				
				3-11	2400	2.52	318	3-16	0100	2.77	370
3-05	0100	8.65	4,080					3-16	2400	2.48	310
3-05	0700	6.89	2,330								
3-05	1100	5.71	1,530	3-12	0300	2.70	356				
3-05	1500	4.90	1,110	3-12	0400	3.11	453	3-17	0100	2.46	306
3-05	2200	4.19	817	3-12	0500	4.22	829	3-17	2400	2.30	272
3-05	2400	4.13	792	3-12	1800	11.04	8,440				
				3-12	2000	11.19	8,850				
				3-12	2100	11.09	8,580	3-18	0100	2.30	272
3-06	0700	4.53	957	3-12	2400	10.48	7,180	3-18	2400	2.16	243
3-06	0900	4.52	953								

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain, but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained, and discharge measurements may have been made for purposes of establishing the stage-discharge relation, but these are not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations during water year 1977

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Gage height (ft)	Discharge (ft^3/s)
		Apalachicola River basin					
02358785	Cowarts Creek near Cottonwood, AL	Lat 31°01'30", long 85°14'07", in sec. 10, T. 7 N., R. 10 W., Houston County, 5.4 mi (8.7 km) east-southeast of Cottonwood.	104 (269 km^2)	1976-77	03-14-77	6.60	2,060
		Choctawhatchee River basin					
02360275	Judy Creek near Ozark, AL	Lat 31°27'47", long 85°34'20", in SE¼ sec. 30, T. 6 N., R. 25 E., Dale County, at bridge on Dale County Highway 36, 2.2 mi (3.5 km) upstream from mouth, and 4 mi (6 km) east of Ozark.	102 (264 km^2)	1957, 1959-77	01-14-77	15.00	4,140
02362610	Bluff Creek near Midway, AL	Lat 32°03'00", long 85°34'21", in E½ sec. 6, T. 12 N., R. 25 E., Bullock County, 4.0 mi (6.4 km) southeast of Midway.	19.4 (50.2 km^2)	1972-77	03-24-77	12.98	3,450
02363055	Moores Branch near Victoria, AL	Lat 31°26'47", long 85°53'57", in SE¼ sec. 25, T. 6 N., R. 21 E., Coffee County, on State Highway 167, 5 mi (8 km) south of Victoria, and 0.8 mi (1.3 km) above mouth.	2.17 (5.62 km^2)	1974-75## 1976-77	03-04-77	3.71	384
02365310	Grants Branch Tributary near Fadette, AL	Lat 31°02'21", long 85°35'11", in SE¼ sec. 24, T. 1 N., R. 24 E., Geneva County, at culvert on county road No. 91, 4.8 mi (7.7 km) south of Slocomb.	1.50 (3.89 km^2)	1972-77	11-28-76	5.76	336
		Escambia River basin					
02372800	Stallings Creek near Greenville, AL	Lat 31°46'36", long 86°38'45", in SW¼ sec. 3, T. 9 N., R. 14 E., Butler County, 4.0 mi (6.4 km) south of Greenville at U.S. Highway 31, and 3.2 mi (5.1 km) above mouth.	35.9 (93.0 km^2)	1972-77	03-30-77	9.31	2,380
02374970	Sizemore Creek near Robinsonville, AL	Lat 31°06'54", long 87°23'30", in NW¼ sec. 32, T. 2 N., R. 7 E., Escambia County, about 9.0 mi (14.5 km) northeast of Atmore, near Robinsonville.	78.3 (202.8 km^2)	1971-77	03-13-77	26.07	2,600
02377500	Styx River near Loxley, AL	Lat 30°39'50", long 87°38'20", in S½ sec. 26, T. 4 S., R. 4 E., Baldwin County, near right bank on downstream side of pier of bridge on county road, 2 mi (3 km) upstream from Hollinger Creek, and 7 mi (11 km) northeast of Loxley.	93.2 (241.4 km^2)	1951-69≠, 1972-77	03-31-77	7.68	1,920
		Mobile River basin					
02400033	Nances Creek near White Plains, AL	Lat 33°50'43", long 85°40'00", in SW¼ sec. 2, T. 14 S., R. 9 E., Calhoun County, on upstream wingwall of culvert on State Highway 9, 6 mi (9.7 km) southwest of Piedmont, and 6.5 mi (10.4 km) northeast of White Plains.	4.60 (11.91 km^2)	1970-74##, 1970-77	-29-77	4.67	636

≠ Operated as a continuous-record gaging station.
Operated as a flood hydrograph and rainfall station.

Annual maximum discharge at crest-stage partial-record stations during water year 1977--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Gage height (ft)	Discharge (ft^3/s)
		Mobile River basin--Continued					
02404245	Cheaha Creek near Talladega, AL	Lat 33°30'37", long 86°00'58", in NE¼ sec. 33, T. 17 S., R. 6 E., Talladega County, at bridge on county highway, 8 mi (13 km) north of Talladega.	69.2 (179.2 km^2)	1951-53, 1955-77	03-29-77	14.56	4,780
02407680	Waxahatchee Creek near Columbiana, AL	Lat 33°10'49", long 86°39'08", in NW¼ sec. 28, T. 21 S., R. 1 W., Shelby County, 3.0 mi (4.8 km) west of Columbiana along State Highway 70.	32.7 (84.7 km^2)	1971-73 1971-74 1971-75 1971-76 1971-77	03-31-73 12-27-73 09-23-75 03-16-76 03-29-77	9.23 10.71 8.90 13.51 16.32	2,460 3,370 2,300 5,610 8,320
02409540	Proctor Creek near Rockford, AL	Lat 32°49'08", long 86°21'52", in SW¼ sec. 9, T. 21 N., R. 17 E., Coosa County, at culvert on State Highway 22, 10 mi (16 km) west of Rockford.	1.02 (2.64 km^2)	1972-77	03-29-77	3.93	372
02412050	Cane Creek near Heflin, AL	Lat 33°39'16", long 85°31'52", in NW¼ sec. 7, T. 16 S., R. 11 E., Cleburne County, 3.5 mi (5.6 km) east of Heflin, and approximately 3.0 mi (4.8 km) above mouth.	47.8 (123.8 km^2)	1971-72 1972-73 1972-74 1972-75 1972-76 1972-77	01-11-72 12-16-72 01-02-74 09-23-75 03-16-76 03-29-77	10.73 11.37 10.80 11.30 11.10 12.55	4,960 6,420 5,100 6,250 5,750 9,650
02412330	Elders Creek near Dempsy, AL	Lat 33°27'48", long 85°46'33", in NE¼ sec. 14, T. 18 S., R. 8 E., Clay County, on upstream side of pipe culvert on State Highway 49, 1.2 mi (1.9 km) north of Dempsy, and 10 mi (16 km) north of Lineville, and about 5 mi (8 km) above mouth	1.79 (4.64 km^2)	1973-75##, 1975-77	03-29-77	6.88	524
02414765	Enitachopco Creek below Ashland, AL	Lat 33°23'07", long 86°00'51", on section line between sections 6 and 7, T. 21 S., R. 8 E., Clay County, at county road 3.5 mi (5.6 km) south of Ashland.	25.8 (66.8 km^2)	1972-77	03-29-77	11.22	3,170
02419835	Chubbahatchee Creek near Friendship, AL	Lat 32°30'38", long 86°04'31", in SE¼ sec. 29, T. 18 N., R. 20 E., Elmore County, about 5 mi (8 km) west of Friendship, along County Road 8.	45.7 (118.4 km^2)	1971-77	03-29-77	29.43	2,000
02421256	Swift Creek near Vida, AL	Lat 32°34'06", long 86°40'34", sec. 4, T. 18 N., R. 14 E., Autauga County, about 12 mi (19 km) northwest of Prattville along U.S. Highway 82, near Vida	99.4 (257 km^2)	1970-77	02-24-77	60.90	/
02423555	Cahaba River near Helena, AL	Lat 33°17'04", long 86°52'58", on line between sections 19 and 20, T. 20 S., R. 3 W., Shelby County, on right bank at downstream side of bridge on Shelby County Highway 52, 1 mi (2 km) above mouth of Trigger Creek, and 3 mi (5 km) west of Helena.	334 (865 km^2)	1965-77	04-06-77	26.70	13,700
02429650	Majors Creek near Tensaw, AL	Lat 31°07'43", long 87°49'06", in SW¼ sec. 18, T. 2 N., R. 3 E., Baldwin County, about 10 mi (16 km) north of Stockton, and 3 mi (5 km) south of Tensaw, along State Highway 59.	44.7 (115.8 km^2)	1970-77	01-15-77	8.15	1,030
02443230	Mud Creek near Fernbank, AL	Lat 33°36'32", long 88°09'45 , in SE¼ sec. 1, T. 17 S., R. 16 W., Lamar County, 3.0 mi (4.8 km) northwest of Fernbank at county road crossing, and 7.0 mi (11.3 km) above mouth.	35.8 (92.7 km^2)	1971-77	03-05-77	33.64	/

/ Discharge not determined.
Operated as a flood hydrograph and rainfall station.

Annual maximum discharge at crest-stage partial-record stations during water year 1977--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Gage height (ft)	Discharge (ft^3/s)
		Mobile River basin--Continued					
02462000	Valley Creek near Oak Grove, AL	Lat 33°26'50", long 87°07'20", in NW¼ sec. 25, T. 18 S., R. 6 W., Jefferson County, near center of span on downstream side of highway bridge, 1,000 ft (305 m) downstream from Raccoon Branch, 1.5 mi (2.4 km) east of Oak Grove, and 10.5 mi (16.9 km) west of Bessemer.	145 (376 km^2)	1954-58≠, 1959-63, 1964-65≠, 1966-77	09-07-77	21.14	8,680
02469500	Tuckabum Creek near Butler, AL	Lat 32°11'00", long 88°10'12", in S½ sec. 15, T. 14 N., R. 2 W., Choctaw County, on left bank, 150 ft (46 m) upstream from bridge on State Highway 17, 2.5 mi (4.0 km) upstream from Yantley Creek, 4 mi (6 km) downstream from Boguelichitto Creek, and 7 mi (11 km) northeast of Butler.	112 (290 km^2)	1954-70≠ 1971-77	02-24-77	16.74	4,260
02469550	Horse Creek near Sweetwater, AL	Lat 32°02'57", long 87°52'12", in SW¼ sec. 34, T. 13 N., R. 2 E., Marengo County, near right bank on downstream side of bridge on Marengo County Highway 25, 0.5 mi (0.8 km) downstream from Mill Creek, 0.8 mi (1.3 km) south of Exmoor, 1.2 mi (1.9 km) north of Hoboken, 3 mi (5 km) upstream from Sweetwater Creek, and 3.5 mi (5.6 km) south of Sweetwater.	52.8 (136.8 km^2)	1959-70≠, 1971-77	04-01-77	16.12	6,280
02469678	Billis Creek near Melvin, AL	Lat 31°57'56", long 88°26'30", in SE¼ sec. 12, T. 11 N., R. 5 W., Choctaw County, at culvert on county road about 2 mi (3 km) east of Melvin.	2.21 (5.72 km^2)	1973-77	02-24-77	10.08	396
02470100	East Bassett Creek at Walker Springs, AL	Lat 31°32'15", long 87°47'24", in NE¼ sec. 32, T. 7 N., R. 3 E., Clarke County, near right bank on downstream side of bridge on county road, 1,000 ft (304 m) southeast of Walker Springs, and 2.8 mi (4.5 km) upstream from Rabbit Creek.	188 (487 km^2)	1956-70≠ 1972-77	04-01-77	9.44	6,450
02470320	Bates Creek near Sims Chapel, AL	Lat 31°12'31", long 88°06'46", in S½ sec. 19, T. 3 N., R. 1 W., Washington County, about 7.5 mi (12.1 km) northwest of Calvert, near Sims Chapel.	51.8 (134.2 km^2)	1970-77	04-01-77	37.84	2,640

≠ Operated as a continuous-record gaging station.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1977

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		Mobile River basin				
Little Choctawhatchee	Choctawhatchee	Lat 31°14'46", long 85°28'56", S½ sec. 7, T. 3 N., R. 26 E., Houston County, and 2.5 mi (4.0 km) northwest of Dothan.	24.6	.....	9-16-77	50.4
Newton Creek	Little Choctawhatchee	Lat 31°14'22", long 85°30'08", in NW¼ sec. 13, T. 3 N., R. 25 E., Houston County, on State Highway 84 and 0.6 mi (1.0 km) upstream from mouth.	39.3	.....	9-16-77	87.8
Little Choctawhatchee	Choctawhatchee	Lat 30°15'43", long 85°34'13", on line between sec. 5 and sec. 6, T. 3 N., R. 25 E., Houston County and at County Road 9.	149	.....	9-15-77	104
Berry Spring	Mills Creek	Lat 34°25'37", long 85°30'27", in SW¼ sec. 17, T. 7 S., R. 11 E., Cherokee County, 4 mi (6 km) northeast of Jamestown.	.....	1968-71, 1973-75, 1977	11- 3-76 4-14-77	2.75 8.92
Congo Spring	Unnamed tributary	Lat 34°17'44", long 85°39'52", in SW¼ sec. 35, T. 8 S., R. 9 E., Cherokee County, 6 mi (9 km) southwest of Blanche.	.....	1968-71, 1973-75, 1977	11- 3-76 4-14-77 6-30-77	2.63 4.19 3.29
Allen Spring	Allen Branch	Lat 34°31'00", long 85°39'23", in NE¼ sec. 14, T. 6 S., R. 9 E., DeKalb County at county road, 4 mi (6 km) southwest of Valley Head.	.....	1968-71, 1973-75, 1977	11- 3-76 4-14-77	1.61 8.85
Muckleroy Spring	Muckleroy Creek	Lat 35°53'45", long 86°18'41", in NW¼NE¼NE¼ sec. 22, T. 13 S., R. 3 E., St. Clair County, 800 ft (244 m) upstream from Muckleroy Creek, 1.6 mi (2.6 km) northwest of Whitney.	.....	1969-74, 1977	11- 9-76 4-15-77	1.44 17.4
Unnamed Spring	Unnamed tributary	Lat 33°53'57", long 85°50'29", in SW¼SE¼NW¼ sec. 18, T. 13 S., R. 8 E., Calhoun County, 6.9 mi (11.1 km) south-southwest of Hokes Bluff and 1.4 mi (2.3 km) south-southwest of Webster's Chapel.	.....	1977	2-28-75 4- 2-75 11- 4-76 4-15-77 6-30-77	4.03 5.36 3.11 6.30 3.92
Germania Spring	Unnamed tributary	Lat 33°50'50", long 85°45'25", in NW¼NW¼ sec. 1, T. 14 S., R. 8 E., Calhoun County, at Jacksonville.	.....	1957-60, 1965, 1974-75, 1977	11- 3-76 4-15-77	3.05 6.58
Seven Springs Creek	Angel Creek	Lat 33°51'08", long 85°51'44", in SW¼ sec. 36, T. 13 S., R. 7 E., Calhoun County, at State Highway 204, 1,000 ft (305 m) upstream from mouth, and 1.8 mi (2.9 km) northwest of Angel.	.....	1956-60, 1969-71, 1973-75, 1977	11- 3-76 4-15-77	4.39 7.48
McCullars Spring	Unnamed tributary	Lat 33°59'13", long 85°56'01", in SW¼ sec. 29, T. 14 S., R. 7 E., Calhoun County, at culvert on county road crossing, 3 mi (4.8 km) northwest of Alexandria.	.....	1958-59, 1969-70, 1973-75, 1977	11- 4-76 4-15-77	3.31 6.56
Unnamed tributary	Shirtee Creek	Lat 33°11'30", long 86°16'10", about cen sec. 19, T. 21 S., R. 3 E., in Talladega County near sewage treatment plant in Sylacauga.	.....	.....	9-22-77	3.6
Shirtee Creek	Tallasee-hatchee Creek	Lat 33°11'24", long 86°16'20", near cen sec. 19, T. 21 S., R. 3 E., in Talladega County at sewage treatment plant in Sylacauga.	.....	.....	9-22-77	9.4
Tallasee-hatchee	Coosa River	Lat 33°13'30", long 86°13'40", on line between sec. 4 and sec. 9, T. 21 S., R. 4 E., in Talladega County on State Highway 21, and 3.0 mi (4.8 km) northeast of Sylacauga.	.....	.....	9-22-77	14.2

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1977--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		Mobile River basin--Continued				
Little Tallaseehatchee	Tallaseehatchee	Lat 33°15'20", long 86°15'00", in SW¼ sec. 29, T. 20 S., R. 4 E., Talladega County on county road 6.5 mi (10.5 km) southeast of Childersburg.	.....	.....	9-22-77	0.29
Tallaseehatchee	Coosa River	Lat 33°15'19", long 86°15'35", on line between sec. 30 and sec. 31, T. 20 S., R. 4 S., Talladega County, 3.0 mi (4.8 km) west of Sycamore, and 60 mi (9.7 km) southeast of Childersburg.	.....	.....	9-22-77	32.0
Tallaseehatchee	Coosa River	Lat 33°16'13", long 86°16'30", in SW¼ sec. 19, T. 20 S., R. 4 E., Talladega County, at county road bridge 4.0 mi (6.4 km) east of Childersburg.	.....	.....	9-22-77	32.4
Weewoka Creek	Tallaseehatchee	Lat 33°16'52", long 86°16'08", in NW¼ sec. 19, T. 20 S., R. 4 E., Talladega County, 0.9 mi (1.4 km) upstream from mouth.	.....	.....	9-22-77	6.8
Mill Creek	Coosa River	Lat 33°03'08", long 86°34'46", NW¼ sec. 21, T. 24 N., R. 15 E., Shelby County, at county road bridge near Bay Spring Church, approximately 4.0 mi (6.4 km) south of Shelby.	.....	1968-71, 1974-77	11- 2-76 4-20-77	4.05 12.5
Lightsey Spring	Cahaba River	Lat 32°54'34", long 87°07'20", SE¼ sec. 1, T. 22 N., R. 9 E., Bibb County, at spillway, 2.5 mi (4.0 km) south of Centreville, on State Highway 219.	.....	1957, 1971, 1973-77	11- 1-76 4-19-77	5.69 37.4
Lubbub Creek	Tombigbee River	Lat 33°22'27", long 88°00'13", in N½ sec. 28, T. 19 S., R. 14 N., Pickens County, on U.S. Highway 82 and 0.2 mi (0.3 km) east of Reform.	.....	.....	9-29-77	79.4
Lubbub Creek	Tombigbee River	Lat 33°19'40", long 88°01'27", in SW¼ sec. 8, T. 20 S., R. 14 W., Pickens County, on county road and 1.4 mi (2.3 km) northeast of Stansel.	.....	.....	9-29-77	74.9
Lubbub Creek	Tombigbee River	Lat 33°17'22", long 88°03'27", in NW¼ sec. 25, T. 20 S., R. 15 W., Pickens County, 0.4 mi (0.6 km) above mouth of Stratten Branch, and 3.0 mi (4.8 km) northeast of Carrollton.	.....	.....	9-29-77	85.5
Lubbub Creek	Tombigbee River	Lat 33°14'47", long 88°04'53", in NE¼ sec. 10, T. 21 S., R. 15 W., Pickens County on County Highway 12, 1.0 mi (1.6 km) southeast of Carrollton, and 4.0 mi (6.4 km) upstream from Little Lubbub Creek.	116	.....	9-29-77	141
Blue Spring	Blue Spring Creek	Lat 34°08'08", long 86°32'16", in NE¼NW¼SE¼ sec. 28, T. 10 S., R. 1 E., Blount County, 4.8 mi (7.7 km) northeast of Blountsville.	.....	1967-74, 1977	11- 9-76 4-15-77	.84 1.30
Big Spring	Unnamed tributary	Lat 34°03'23", long 86°38'54". in E¼NE¼NW¼ sec. 28, T. 11 S., R. 1 W., Blount County, 3.8 mi (6.1 km) southeast of Blountsville.	.....	1967-71, 1973-75, 1977	11- 5-76 4-21-77	5.98 8.89
Cove Spring	Little Cove Creek	Lat 34°06'30", long 86°15'10", in SW¼SW¼NE¼ sec. 6, T. 11 S., R. 4 E., Etowah County, 3.9 mi (6.3 km) northeast of Walnut Grove.	.....	1964-68, 1969-74, 1977	11- 9-76 4-15-77	1.54 3.03
Penny Spring	Turkey Creek	Lat 33°41'56", long 86°40'09", in NW¼SW¼ sec. 29, T. 15 S., R. 1 W., Jefferson County, 1 mi (2 km) northeast of Pinson.	.....	1968-71, 1973-75, 1977	11- 5-76 4-15-77	3.91 8.64

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1977--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		Mobile River basin--Continued				
Robinwood Spring	Robinwood Spring Branch	Lat 33°37'00", long 86°44'14", in SE¼NW¼ sec. 27, T. 16 S., R. 2 W., Jefferson County, 0.5 mi (0.8 km) east of Robinwood.	.....	1968-71, 1973-77	11- 5-76 4-15-77	0.94 1.95
Crooked Creek	Turkey Creek	Lat 33°43'41", long 86°51'59", SE¼ sec. 17, T. 15 S., R. 3 W., Jefferson County, 700 ft (213 m) above haul road, 400 ft (122 m) upstream from tributary, 3.5 mi (5.6 km) southwest of Morris, 5.5 mi (8.8 km) southwest of Gardendale.	.....	.....	2- 5-77 3- 3-77 3- 4-77 3- 4-77 3- 4-77 3-11-77 4-20-77 5-20-77	60.9 23.9 328 462 465 25.5 4.35 .86
Village Creek	Locust Fork	Lat 33°34'33", long 86°43'13", in NW¼ sec. 11, T. 17 S., R. 2 W., Jefferson County, at 86th Street North in East Lake in Birmingham.	.....	.....	4-19-77	5.50
Village Creek	Locust Fork	Lat 33°32'53", long 86°55'33", in N½ sec. 23, T. 17 S., R. 4 W., Jefferson County, at County Road 65 bridge, 2.5 mi (4.0 km) upstream from Bayview Lake, and 0.8 mi (1.3 km) northeast of Minor.	55.0	.....	4-21-77	142
Valley Creek	Black Warrior	Lat 33°30'27", long 86°49'48", in SW¼ sec. 35, T. 17 S., R. 3 W., Jefferson County, at 4th Street North and 4th Avenue North, and 0.25 mi (0.40 km) below storm sewer outlet.	.....	.....	4-11-77 7-11-77	10.7 7.37
Little Yellow	Big Yellow	Lat 33°34'01", long 87°24'37", in SW¼NE¼ sec. 18, T. 17 S., R. 8 W., Tuscaloosa County, 300 ft (91 m) downstream from bridge on State Highway 69, about 2,000 ft (610 m) southwest from Whitson.	.....	.....	11- 5-76 6- 1-77	.50 1.66
Blue Creek	Black Warrior River	Lat 33°29'02", long 87°28'18", in NW¼NW¼ sec. 15, T. 18 S., R. 9 W., Tuscaloosa County, about 0.25 mi (0.4 km) downstream from bridge on county road 1.65 mi (27 km) east-southeast of Windham Springs, and about 10.4 mi (16.7 km) from mouth.	.....	.....	11- 4-76 6- 2-77	11 41
Blue Creek	Black Warrior River	Lat 33°27'01", long 87°24'51", in SW¼NE¼ sec. 30, T. 18 S., R. 8 W., Tuscaloosa County, at bridge on county road about 6 mi (9.7 km) southeast from Windham Springs and 3.5 mi (5.6 km) upstream from mouth.	.....	.....	11- 4-76 6- 1-77	1.25 2.97
Tributary	Rocky Branch	Lat 33°15'48", long 87°23'58", NW¼ sec. 32, T. 20 S., R. 8 W., Tuscaloosa County, 1,000 ft (305 m) above mouth, 2.4 mi (3.9 km) northeast of Peterson, and 1.3 mi (2.1 km) west of Camp Cherry Austin.	.....	.....	3-21-77 4- 2-77 4- 2-77 4- 3-77 4- 3-77 4- 3-77 4- 3-77 6- 2-77	3.98 3.22 4.59 6.63 3.19 2.28 1.94 .111
Unnamed tributary	Yellow Creek	Lat 33°25'23", long 87°27'49", in SW¼NE¼ sec. 3, T. 19 S., R. 9 W., Tuscaloosa County, 50 ft (15 m) downstream of bridge at road about 5.3 mi (8.5 km) south-southeast from Windham Springs.	.....	.....	11- 4-76 5-31-77	.62 .72
Unnamed tributary	Yellow Creek	Lat 33°25'07", long 87°27'21", in NW¼SW¼ sec. 2, T. 19 S., R. 9 W., Tuscaloosa County, 50 ft (15 m) downstream of bridge at road about 5.8 mi (9.3 km) south-southeast from Windham Springs.	.....	.....	11- 4-76 5-31-77	.54 .66

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1977--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		Mobile River basin--Continued				
Yellow Creek	Black Warrior River	Lat 33°23'26", long 87°28'30", SE¼ sec. 16, T. 19 S., R. 9 W., Tuscaloosa County, at county road bridge 7.5 mi (12.1 km) south of Windham Springs and 16 mi (26 km) northeast of Northport.	3.64	.....	11- 2-76	3.23
					12- 8-76	4.20
					1- 9-77	60.4
					1-14-77	28.3
					3- 4-77	10.5
					3-24-77	7.62
					5-19-77	4.58
					6-21-77	3.59
					7-18-77	3.43
					8-16-77	2.69
					9-21-77	4.15
Unnamed tributary	Yellow Creek	Lat 33°23'18", long 87°27'51", SE¼ sec. 15, T. 19 S., R. 9 W., Tuscaloosa County at county road bridge, 7.5 mi (12.1 km) south of Windham Springs and 17 mi (27 km) northeast of Northport.	2.49	.....	11- 2-76	2.72
					12- 8-76	3.45
					1- 9-77	40.5
					1- 9-77	42.9
					1- 9-77	18.2
					1-14-77	13.8
					3- 4-77	14.0
					3- 4-77	36.1
					3-24-77	4.99
					5-19-77	3.56
					6-22-77	2.52
					8-16-77	1.86
Tributary	Yellow Creek	Lat 33°21'38", long 87°27'39", SE¼ sec. 27, T. 19 S., R. 9 W., Tuscaloosa County, 40 ft (12 m) above mouth, 5.0 mi (8.0 km) north of Lake Nicol Dam, 9.0 mi (14.5 km) south-southeast of Windham Springs, 12 mi (19.3 km) northeast of Tuscaloosa.	.....	.....	1-28-77	3.43
					2-10-77	2.36
					2-12-77	5.40
					2-24-77	6.70
					3- 4-77	26.3
					3- 4-77	37.5
					3-28-77	9.08
					3-28-77	5.45
					4- 2-77	24.0
					4- 3-77	45.1
					4- 3-77	16.6
					4- 3-77	4.62
					5-16-77	3.30
					6-20-77	2.03
					7-18-77	2.62
					9-22-77	2.12
Cypress Creek	Black Warrior River	Lat 33°15'38", long 87°27'58", SE¼ sec. 34, T. 20 S., R. 9 W., Tuscaloosa County, at hard road, approximately 300 ft (91 m) upstream from mouth, 0.7 mi (1.1 km) northwest of Holt lock and dam, 2.0 mi (3.2 km) northeast of Holt.	.....	.....	6- 2-77	2.05
Little Tyro	Tyro Creek	Lat 33°36'02", long 87°30'25", in SW¼NW¼ sec. 5, T. 17 S., R. 9 W., Tuscaloosa County, 500 ft (152 m) downstream from bridge at road, 0.7 mi (1.1 km) upstream from Popular Hollow Creek, 4.9 mi (7.9 km) northeast from Sterling.	.....	.....	11- 5-76	.16
					6- 2-77	.09
Tyro Creek	North River	Lat 33°33'58", long 87°34'34", in SW¼SW¼ sec. 15, T. 17 S., R. 10 W., Tuscaloosa County, 50 ft (15 m) downstream from bridge at county road 0.6 mi (1.0 km) north from Sterling and 2.4 mi (3.9 km) upstream from mouth.	.....	.....	11- 4-76	.86
					6- 1-77	.63
Unnamed tributary	Bear Creek	Lat 33°33'48", long 87°32'12", in SE¼SW¼ sec. 13, T. 17 S., R. 10 W., Tuscaloosa County, at bridge on road, 0.65 mi (1.0 km) north-northwest from Liberty Hill Church, about 2.1 mi (3.4 km) east-northeast of Sterling.	.....	.....	11- 4-76	.13

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1977--Continnued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		Mobile River basin--Continued				
Dry Branch	Bear Creek	Lat 33°32'33", long 87°32'22", SW¼ sec. 25, T. 17 S., R. 10 W., Tuscaloosa County, at road crossing, 0.8 mi (1.3 km) south of Liberty Hill Church, 0.9 mi (1.4 km) upstream from mouth, about 11.5 mi (18.5 km) northeast of Samantha.	0.72	.....	11- 3-76	0.03
					12- 6-76	.30
					1- 6-77	.79
					1- 9-77	28.7
					1- 9-77	18.3
					1-14-77	10.4
					3- 4-77	60.2
					3-25-77	1.31
					4-11-77	1.24
					5-18-77	.054
					7-20-77	"0" flow
					8-18-77	"0" flow
					9-20-77	"0" flow
Johnson Branch	Cripple Creek	Lat 33°30'32", long 87°32'24", in SW¼NW¼ sec. 1, T. 18 S., R. 10 W., Tuscaloosa County, 50 ft (15 m) downstream from bridge on county road 1.3 mi (2.1 km) northwest from Oregonia church and about 500 ft (152 m) from mouth.	.....	.....	11- 4-76	.09
					6- 1-77	.02
Cripple Creek	North River	Lat 33°29'24", long 87°33'46", in SE¼SE¼ sec. 10, T. 18 S., R. 10 W., Tuscaloosa County, about 70 ft (21 m) downstream from bridge on State Highway 38, 4.0 mi (6.4 km) west of Windham Springs, and 2.5 mi (4.0 km) upstream from mouth.	.....	.....	11- 4-76	.40
					6- 2-77	.86
Turkey Creek	North River	Lat 33°23'55", long 87°29'11", in NE¼NW¼ sec. 16, T. 19 S., R. 9 W., Tuscaloosa County, at bridge on road about 6.7 mi (10.8 km) south of Windham Springs.	.....	.....	11- 4-76	.41
					5-31-77	.84
Turkey Creek	North River	Lat 33°24'32", long 87°30'45", E½ sec. 7, T. 19 S., R. 9 W., Tuscaloosa County, on Alabama Highway 69 approximately 14 mi (23 km) north of Tuscaloosa and 5.1 mi (8.2 km) upstream from mouth.	6.13	.....	11- 3-76	3.53
					12- 7-76	4.81
					1- 7-77	12.9
					1- 9-77	232
					1- 9-77	113
					1-14-77	61.2
					2-14-77	6.08
					3-12-77	390
					3-12-77	234
					3-12-77	141
					3-25-77	11.5
					4- 4-77	591
					4-12-77	11.5
					5-16-77	3.12
					6-22-77	2.44
					7-20-77	2.75
					8-18-77	2.32
					9-19-77	4.01
Barbee Creek	Binion Creek	Lat 33°31'47", long 87°39'30", NW¼ sec. 35, T. 17 S., R. 11 W., Tuscaloosa County, on bridge at crossroads, 8.5 mi (13.7 km) northwest of Samantha, 2.1 mi (3.4 km) south of New Lexington.	.....	.....	6- 1-77	1.16
Barbee Creek	Binion Creek	Lat 33°30'27", long 87°38'48", on line between sec. 1 and 12, T. 18 S., R. 11 W., Tuscaloosa County, at crossroads 4.0 mi (6.4 km) south of New Lexington, 6.5 mi (10.9 km) northwest of Samantha.	.....	.....	6- 1-77	1.31
Big Sandy Spring	Sandy Creek	Lat 33°06'02", long 87°19'32", NW¼ sec. 25, T. 22 S., R. 8 W., Tuscaloosa County, 4.5 mi (7.2 km) south of Coaling, and along side of a county road about 0.5 mi (0.8 km) east of road from Hagler.	.....	.....	11- 4-76	6.8
					5-12-77	13.7

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1977--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		Tennessee River basin				
Phillips Spring	Unnamed tributary	Lat 34°37'40", long 85°36'06", in NE¼SE¼ sec. 5, T. 5 S., R. 10 E., DeKalb County, 3.3 mi (5.3 km) northeast of Hammondville, and 5 mi (8.0 km) north of Valley Head.	.....	1968-71, 1973-75, 1977	11- 2-76 4-14-77	1.64 2.52
Brown Spring	Bengis Creek	Lat 34°53'53", long 85°49'02", in NW¼ Bengis Reservation, T. 2 S., R. 8 E., Jackson County, 2.4 mi (3.9 km) northeast of Stevenson.	.....	1966, 1968-71, 1973-75. 1977	11- 2-76 4-14-77	4.33 14.5
Acuff Spring	Chase Creek	Lat 34°46'48", long 86°29'30", in NW¼SW¼NE¼ sec. 14, T. 3 S., R. 1 E., Madison County, 0.9 mi (1.4 km) northwest of Ryland, and 3.0 mi (4.8 km) east of Chase, Ala.	.....	1952-54, 1956-59, 1970-72, 1977	7- 1-77	1.35
Flint River	Tennessee River	Lat 34°47'13", long 86°28'46", in NE¼SW¼SW¼ sec. 12, T. 3 S., R. 1 E., Madison County, 700 ft (213 m) downstream from Chase Sewage Lagoon effluent, 1,600 ft (488 m) downstream from Chase Creek, 0.7 mi (1.1 km) northeast of Acuff Spring, 1.3 mi (2.1 km) southeast of Mt. Carmel, and at mile 33.0 (53.1 km).	362 (938 km^2)	1971-73, 1975, 1977	11-15-76	222
Huntsville Spring Branch	Indian Creek	Lat 34°39'33", long 86°36'16", in SW¼NE¼SW¼ sec. 26, T. 4 S., R. 1 W., Madison County, at bridge on Martin Road, 2.2 mi (3.5 km) northwest of Farley Station Post Office in Huntsville, and at mile 9.8 (15.8 km).	46.9 (121.5 km^2)	1971-73, 1975-76, 1977	11-16-76	39.4
Hughes Spring	Unnamed tributary	Lat 34°25'01", long 86°35'38", in NW¼ sec. 24, T. 7 S., R. 1 W., Morgan County, 4 mi (6.4 km) south of Morgan City and 6.3 mi (10.1 km) east of Florette.	.....	1968-69, 1971, 1973-75, 1977	11- 4-76 4-21-77	2.87 5.89
Cave Spring	Tennessee River	Lat 34°32"46", long 86°51'04", in NE¼SW¼ sec. 4, T. 6 S., R. 3 W., Morgan County, 1,000 ft (305 m) upstream from Wheeler Reservation, 3.4 mi (5.5 km) northeast of Priceville, and 8 mi (12.9 km) southeast of Decatur.	.....	1968-71, 1973-75, 1977	11- 4-76 4-21-77	3.31 5.56
Blowing Spring	Holland Creek	Lat 34°59'30", long 86°52'47", in NW¼NE¼ sec. 6, T. 1 S., R. 3 W., Limestone County, at U.S. Highway 31, 1,000 ft (305 m) south of the Alabama-Tennessee State line, and 2 mi (3.2 km) west of Ardmore.	.....	1968-71, 1973-75, 1977	11- 4-76 4-21-77	1.74 3.62
Wheeler Spring	Wheeler Spring Branch	Lat 34°39'09", long 87°15'06", in SE¼ sec. 34, T. 4 S., R. 7 W., Lawrence County, 200 ft (61 m) south of State Highway 20, and at Wheeler.	.....	1968-70, 1973-75, 1977	4-25-77	5.64
Blowing Springs	First Creek	Lat 34°51'52", long 87°18'14", in SE¼NE¼ sec. 19, T. 2 S., R. 7 W., Lauderdale County, 1,000 ft (305 m) north of county road and 2.7 mi (4.3 km) north of Rogersville.	.....	1968-71, 1973, 1975, 1977	11- 4-76 4-25-77	.55 1.57
Town Creek	Tennessee River	Lat 34°40'55", long 87°27'04", on west half of section line between secs. 23 and 26, T. 4 S., R. 9 W., Lawrence County at bridge on State Highway 20, 2.5 mi (4.0 km) west of Town Creek.	201 (521 km^2)	1963-65 1977	8-15-77	9.54

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1977--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		Tennessee River basin--Continued				
Rock Spring	Unnamed tributary	Lat 34°51'27", long 87°54'09", in SW¼NW¼NW¼ sec. 27, T. 2 S., R. 13 W., Lauderdale County, 2 mi (3.2 km) southwest of Rhodesville.	.....	1967-70, 1973-75, 1977	4-25-77	4.00
Buzzard Roost Spring	Buzzard Roost Creek	Lat 34°45'36", long 88°01'26", in sec. 32, T. 3 S., R. 14 W., Colbert County, at Natchez Trace, 0.2 mi (0.3 km) south of U.S. Highway 72, and 3 mi (4.8 km) west of Cherokee.	.....	1968-70, 1973-75, 1977	11-18-76 4-25-77	1.33 3.46

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02398580 MIDDLE FORK LITTLE RIVER ON ALABAMA STATE ROAD 58 NEAR VALLEY HEAD, AL (Lat 34 32 18 Long 085 31 41)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
APR 29...	--	15	6.3	13.5	5	2	4	0	.2	.9	.7

DATE	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)
APR 29...	.1	.5	5	0	2.4	1.2	.0	4.0	18	13	--

DATE	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)
APR 29...	.11	.49	.00	.00	.11	.11	.00	.01	.01	.05	.07

DATE	TOTAL KJELDAHL NITROGEN (N) (MG/L)	SUSPENDED KJEL. NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)
APR 29...	.05	.00	.08	.16	.71	.00	.00	.00	.00	100	1

DATE	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
APR 29...	0	10	0	180	20	22	20	20	.0	10	4.3

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02398865 WEST FORK LITTLE RIVER AT TAYLOR FORD NEAR VALLEY HEAD, AL (Lat 34 35 11 Long 085 33 49)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
APR 29...	--	15	6.0	15.0	5	1	9.7	4	2	.1	.9	.6

DATE	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)
APR 29...	.1	.5	3	0	2.7	1.3	.0	3.2	17	11	--

DATE	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)
APR 29...	.01	.04	.00	.00	.01	.01	.00	.01	.01	.04	.09

DATE	TOTAL KJELDAHL NITROGEN (N) (MG/L)	SUSPENDED KJEL. NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)
APR 29...	.04	.00	.10	.05	.22	.00	.00	.00	.00	100	0

DATE	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
APR 29...	0	7	0	170	40	12	10	10	.0	0	7.1

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02419890 TALLAPOOSA RIVER NEAR MONTGOMERY, AL (Lat 32 26 23 Long 086 11 44)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
DEC											
17...	10000	52	6.6	10.0	11.0	18	1	4.8	1.3	3.7	.4
MAR											
24...	14000	54	6.7	12.0	11.3	15	0	4.5	1.0	3.9	.4
AUG											
24...	2200	44	7.1	26.0	8.6	11	0	2.1	1.3	2.9	.4

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)
DEC											
17...	1.3	21	0	3.8	6.0	.0	9.1	41	1110	.15	.65
MAR											
24...	1.1	20	0	4.2	3.2	.1	8.7	--	--	--	--
AUG											
24...	1.1	16	0	--	3.8	.1	8.9	--	--	.54	2.4

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
DEC										
17...	1	1	<1	<1	140	1	13	<.2	50	60
MAR										
24...	1	1	0	1	220	2	4	.4	30	10
AUG										
24...	ND	ND	ND	<1	40	2	16	.3	50	50

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02423390 CAHABA RIVER AT PUMP STATION NEAR BIRMINGHAM, AL (Lat 33 27 05 Long 086 42 58)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
DEC										
02...	231	7.8	7.0	9.6	100	2	31	6.2	3.6	.2
MAR										
10...	103	7.3	11.0	11.1	33	4	8.2	2.9	6.4	.5
AUG										
16...	244	7.7	26.5	7.5	100	10	30	6.1	5.4	.2

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)
DEC										
02...	3.4	120	0	11	4.2	.0	4.1	124	.32	1.4
MAR										
10...	1.0	36	0	13	2.2	.0	6.3	60	.34	1.5
AUG										
16...	3.2	110	0	17	5.0	.1	7.2	130	.51	2.3

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
DEC										
02...	1	<1	ND	<1	0	1	79	ND	70	10
MAR										
10...	<1	<1	ND	1	20	1	50	<.2	10	10
AUG										
16...	2	<1	<1	1	10	ND	ND	ND	110	10

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02438000 BUTTAHATCHEE RIVER BELOW HAMILTON, AL (Lat 34 06 Long 087 58)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)
OCT										
29...	96	37	7.1	9.0	50	11.3	1.5	13	0	.13
DEC										
14...	308	32	6.8	7.5	--	13.2	--	6	0	--
JAN										
17...	602	29	6.5	2.0	9.0	15.0	--	7	0	.35
MAR										
14...	1780	20	5.9	12.0	20	11.2	--	6	0	.26
APR										
11...	660	22	6.2	16.0	7.0	10.6	--	10	0	.24
JUN										
14...	115	43	6.5	25.0	35	8.0	--	8	0	.31
AUG										
09...	77	44	5.3	27.0	6.0	7.2	--	9	0	.23

DATE	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT									
29...	.03	.18	.21	2.0	.02	0	<10	7	--
DEC									
14...	--	--	--	--	--	--	--	--	--
JAN									
17...	.02	.08	.10	.01	.00	--	--	--	--
MAR									
14...	.03	.16	.19	.02	.00	0	20	4	--
APR									
11...	.02	.26	.28	--	.02	0	<10	6	--
JUN									
14...	.03	.60	.63	.13	.02	0	20	14	--
AUG									
09...	.02	.33	.35	.06	.02	0	<10	6	.0

DATE	PCB IN BOTTOM MATERIAL (UG/KG)	ALDRIN IN BOTTOM MATERIAL (UG/KG)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	DDD IN BOTTOM MATERIAL (UG/KG)	DDE IN BOTTOM MATERIAL (UG/KG)	DDT IN BOTTOM MATERIAL (UG/KG)	DIAZINON IN BOTTOM MATERIAL (UG/KG)	DIELDRIN IN BOTTOM MATERIAL (UG/KG)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	ETHION IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)
OCT											
29...	0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0

DATE	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)	LINDANE IN BOTTOM MATERIAL (UG/KG)	MALATHION IN BOTTOM MATERIAL (UG/KG)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG)	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG)	PARATHION IN BOTTOM MATERIAL (UG/KG)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)	TRITHION IN BOTTOM MATERIAL (UG/KG)	2,4-D IN BOTTOM MATERIAL (UG/KG)	2,4,5-T IN BOTTOM MATERIAL (UG/KG)	SILVEX IN BOTTOM MATERIAL (UG/KG)
OCT											
29...	.0	.0	.0	.0	.0	.0	0	.0	0	0	0

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02444000 COAL FIRE CREEK NEAR PICKENSVILLE, AL (Lat 33 18 00 Long 088 16 00)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	BICARBONATE (HCO3) (MG/L)
OCT								
29...	68	25	6.9	11.0	15	10.2	1.4	10
NOV								
18...	84	28	6.4	7.0	10	11.1	1.8	11
FEB								
16...	112	25	6.8	7.0	15	10.6	2.6	14
AUG								
11...	27	28	6.8	25.5	20	7.1	--	12
SEP								
15...	38	29	6.8	24.0	20	6.9	1.0	13

DATE	CARBONATE (CO3) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)
OCT							
29...	0	.01	.00	.32	.32	--	.00
NOV							
18...	0	.00	.00	.30	.30	.01	.00
FEB							
16...	0	.02	.01	.29	.30	.02	.00
AUG							
11...	0	.13	.03	.43	.46	.04	.01
SEP							
15...	0	.06	.02	.34	.36	.03	.01

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02445000 LUBBUB CREEK NEAR CARROLLTON, AL (Lat 33 15 Long 088 05)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	BICARBONATE (HCO3) (MG/L)
OCT								
28...	116	29	6.6	11.5	10	8.6	1.9	7
NOV								
17...	104	31	6.3	8.0	10	10.1	.0	18
FEB								
16...	106	26	6.5	7.0	10	10.2	1.7	10
AUG								
11...	33	42	6.8	25.5	15	5.5	--	13
SEP								
15...	30	36	6.6	24.0	15	5.3	.9	--

DATE	CARBONATE (CO3) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)
OCT							
28...	0	.01	.01	.39	.40	--	.00
NOV							
17...	0	.00	.00	.24	.24	.03	.01
FEB							
16...	0	.00	.02	.29	.31	.04	.01
AUG							
11...	0	.12	.07	.76	.83	.10	.05
SEP							
15...	--	.06	.08	.47	.55	.11	.08

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02447000 SIPSEY RIVER NEAR PLEASANT RIDGE, AL (Lat 33 02 Long 088 07)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	BICARBONATE (HCO3) (MG/L)
OCT								
27...	293	64	7.3	14.0	6.0	9.9	.5	16
NOV								
17...	451	56	6.3	7.5	10	10.8	1.6	13
FEB								
16...	800	49	7.3	7.5	10	10.6	1.8	13
AUG								
12...	294	79	7.2	27.5	10	7.2	--	15
SEP								
15...	374	51	6.9	24.5	15	6.9	.3	8

DATE	CARBONATE (CO3) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)
OCT							
27...	0	.07	.00	.22	.22	--	.00
NOV							
17...	0	.00	.00	.22	.22	.02	.00
FEB							
16...	0	.08	.01	.16	.17	.02	.00
AUG							
12...	0	.23	.02	.61	.63	.03	.01
SEP							
15...	0	.18	.02	.30	.32	.04	.03

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02448500 NOXUBEE RIVER NEAR GEIGER, AL (Lat 32 55 06 Long 088 17 45)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	BICARBONATE (HCO3) (MG/L)
OCT								
29...	108	76	7.5	12.0	15	10.4	1.1	38
NOV								
18...	229	88	7.2	8.0	10	11.0	2.4	38
FEB								
17...	504	188	7.6	8.0	25	11.3	2.8	50
AUG								
11...	136	140	8.0	30.0	35	6.5	--	63
SEP								
15...	739	110	7.8	25.0	65	6.7	2.4	46

DATE	CARBONATE (CO3) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)
OCT							
29...	0	.10	.00	.20	.20	--	.00
NOV							
18...	0	.02	.01	.16	.17	.05	.01
FEB							
17...	0	.09	.06	.60	.66	.08	.03
AUG							
11...	0	.26	.06	.52	.58	.12	.04
SEP							
15...	0	.12	.09	.57	.66	.15	.04

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02456044 UNNAMED SPRING TRIBUTARY TC TURKEY CREEK DOWNSTREAM FROM MORRIS, AL (Lat 33 45 15 Long 086 49 43)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
JUN 21...	1410	1360	6.2	21.0	10	740	720	130	100	18	.3

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFIDE (S) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRATE (N) (MG/L)
JUN 21...	4.1	26	0	.5	780	2.2	.1	11	1190	1060	.42

DATE	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)
JUN 21...	.00	.42	.40	.82	3.6	.01	.00	10	1100	2800

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED LITHIUM (LI) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
JUN 21...	1	0	0	27	0	10	10	.0	0	500	70

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02456045 TRIBUTARY TO TURKEY CREEK DOWNSTREAM FROM MORRIS, AL (Lat 33 45 22 Long 086 49 36)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
FEB									
25...	0930	3.1	380	6.9	10.5	--	10	0	170
MAR									
11...	1400	2.8	700	6.1	12.0	--	10	0	340
12...	0820	5.5	480	4.9	15.0	10.4	6	0	130
12...	0900	29	200	4.5	16.0	11.0	3	0	79
APR									
20...	1545	.39	1500	6.5	17.0	8.6	34	0	830
MAY									
20...	2030	.14	1900	6.7	19.0	9.2	20	0	1000

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)
FEB									
25...	--	--	--	--	--	--	--	--	--
MAR									
11...	340	330	60	46	8.2	.2	2.6	--	--
12...	160	160	28	23	4.3	.1	2.3	150	2.23
12...	75	73	12	11	3.2	.2	2.8	106	8.30

DATE	TOTAL ALUMINUM (AL) (UG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	TOTAL ALUMINUM IN BOTTOM MATERIAL (UG/G)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)
FEB									
25...	840	20	5500	4300	340	32000	1100	990	480
MAR									
11...	200	30	--	600	380	--	1500	1500	--
12...	7200	110	--	26000	60	--	1300	1100	--
12...	180000	100	--	160000	20	--	6100	670	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02456045 TRIBUTARY TO TURKEY CREEK DOWNSTREAM FROM MORRIS, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	TOTAL BORON (B) (UG/L)	TOTAL BORON IN BOTTOM MA- TERIAL (UG/G)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL CHRO- MIUM (CR) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)
FEB											
25...	2	130	9	0	0	0	<10	20	0	<10	17

DATE	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL LITHIUM (LI) (UG/L)	DIS- SOLVED LITHIUM (LI) (UG/L)	TOTAL MERCURY (HG) (UG/L)
FEB										
25...	16	5	0	20	5	0	<10	0	10	.0

DATE	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	TOTAL SELE- NIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL STRON- TIUM (SR) (UG/L)	DIS- SOLVED STRON- TIUM (SR) (UG/L)	TOTAL STRON- TIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)	TOTAL ORGANIC CARBON (C) (MG/L)
FEB										
25...	.3	0	0	160	130	20	80	80	60	3.2

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)
FEB				
25...	0930	3.1	90	.75
MAR				
11...	1400	2.8	13	.10
12...	0755	5.0	2110	28
12...	0815	6.1	3083	51

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)
MAR				
12...	0820	5.5	3070	46
12...	0900	29	44500	3480
12...	0910	20	15900	859

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02456053 SPRING TRIBUTARY TO TURKEY CREEK NEAR KIMBERLY, AL (Lat 33 45 32 Long 086 50 02)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
JUN 29...	1230	.01	660	6.0	16.5	5	290	270	58	36	12

DATE	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFIDE (S) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)
JUN 29...	.3	1.8	26	0	.0	300	2.3	.1	28	452	.01

DATE	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)
JUN 29...	.00	.00	.00	.24	.24	1.1	.28	.00	40	40000	3600

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED LITHIUM (LI) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
JUN 29...	3	7	0	5	46	0	0	40	.0	0	130	50

MOBILE RIVER BASIN

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02456055 TRIBUTARY TO TURKEY CREEK NEAR KIMBERLY, AL (Lat 33 45 37 Long 086 49 46)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
MAR									
11...	1300	.88	600	4.5	14.0	--	1	0	290
12...	0830	5.5	210	4.4	16.0	--	--	--	83
12...	0925	26	111	4.8	16.0	--	6	0	71
MAY									
20...	2000	.17	1250	3.8	20.5	9.5	0	0	600

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
MAR								
11...	280	280	37	45	6.0	.2	2.1	--
12...	84	--	12	13	2.0	.1	1.5	--
12...	70	65	10	11	1.7	.1	1.5	134

DATE	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL ALUMINUM (AL) (UG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)
MAR							
11...	--	840	780	1600	1600	4100	4100
12...	--	--	280	--	160	--	1300
12...	9.41	24000	250	100000	100	1800	880

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAR				
11...	1330	--	8	--
12...	0830	5.5	3970	59
12...	0835	21	3970	225
12...	0930	26	3780	265

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02456310 CROOKED CREEK NEAR MT. OLIVE, AL (Lat 33 43 42 Long 086 51 59)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
FEB										
25...	1110	60	102	6.9	10.5	--	11	0	9.7	--
MAR										
03...	1400	24	52	6.3	10.0	12.0	11	0	10	--
04...	0200	30	50	6.2	11.0	--	10	0	9.3	--
04...	0300	35	47	--	11.0	11.0	--	--	--	--
04...	0400	65	45	6.0	11.0	11.0	--	--	--	--
04...	0600	595	44	6.1	11.0	--	--	--	--	85
11...	1430	22	50	6.3	13.0	--	12	0	9.2	--
APR										
20...	1450	4.3	64	5.7	20.0	11.4	14	0	11	--
MAY										
02...	1850	.86	83	6.8	22.0	7.6	24	0	15	--
JUN										
21...	1015	E.20	92	6.9	25.0	--	26	0	--	--

DATE	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)
FEB									
25...	--	--	--	--	--	--	--	--	--
MAR									
03...	18	9	3.7	2.1	3.4	.4	1.0	36	2.33
04...	16	8	3.2	1.9	3.5	.4	1.0	--	--
11...	17	7	3.1	2.2	3.3	.4	1.1	--	--

DATE	TOTAL ALUMINUM (AL) (UG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	TOTAL ALUMINUM IN BOTTOM MATERIAL (UG/G)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)
FEB									
25...	490	20	4800	1600	60	13000	40	30	320
MAR									
03...	290	40	--	600	40	--	50	50	--
04...	1400	50	--	3900	60	--	100	50	--
11...	170	20	--	360	70	--	50	40	--

DATE	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL BORON (B) (UG/L)	TOTAL BORON IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM (CD) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)
FEB										
25...	14	20	0	0	0	<10	20	0	<10	0

DATE	DISSOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL LITHIUM (LI) (UG/L)	DISSOLVED LITHIUM (LI) (UG/L)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)
FEB										
25...	0	1	0	10	6	0	<10	0	0	.0

DATE	DISSOLVED SELENIUM (SE) (UG/L)	TOTAL SELENIUM IN BOTTOM MATERIAL (UG/G)	TOTAL STRONTIUM (SR) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	TOTAL STRONTIUM IN BOTTOM MATERIAL (UG/G)	TOTAL ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)	TOTAL ORGANIC CARBON (C) (MG/L)
FEB									
25...	0	0	100	50	20	10	10	20	2.6

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02456327 TRIBUTARY TO CROOKED CREEK NEAR MORRIS, AL (Lat 33 43 57 Long 086 52 19)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
JUN 21...	1515	E.40	2430	6.6	26.0	120	0

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462490 LITTLE YELLOW CREEK NEAR WHITSON, AL (Lat 33 40 10 Long 087 24 37)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
NOV								
15...	1400	.50	40	6.3	9.0	--	--	--
JUN								
01...	1400	1.7	62	6.5	25.0	7.6	20	11

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
NOV									
15...	--	--	--	--	--	24	0	4.5	--
JUN									
01...	3.4	2.9	2.5	.2	1.4	11	0	14	2.0

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)
NOV								
15...	--	--	--	--	--	--	--	--
JUN								
01...	34	.16	.01	.00	.01	30	170	20

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
NOV				
15...	1400	.50	1	.00
JUN				
01...	1400	1.7	4	.02

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462625 BLUE CREEK NEAR WINDHAM SPRINGS, AL (Lat 33 29 02 Long 087 28 18)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)
NOV 04...	1030	.11	76	6.1	11.0	--	--	--	--	--	--	--
JUN 03...	1145	.41	50	6.7	21.0	5.9	16	2.6	2.3	2.5	.3	1.3

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)
NOV 04...	30	0	5.7	--	--	--	--	--	--	--	--	--
JUN 03...	--	--	6.0	1.9	23	.03	.03	.00	.03	30	170	20

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
NOV 04...	1030	.11	7	.00
JUN 03...	1145	.41	10	.01

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462650 BLUE CREEK NEAR SPENCER HILL, AL (Lat 33 27 01 Long 087 24 51)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG.C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
NOV								
04...	1315	1.3	201	6.3	11.0	--	--	--
JUN								
01...	1600	3.0	133	7.4	27.0	8.8	59	46

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
NOV									
04...	--	--	--	--	--	12	0	77	--
JUN									
01...	7.3	9.9	2.8	.2	1.2	16	0	41	1.9

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)
NOV								
04...	--	--	--	--	--	--	--	--
JUN								
01...	80	.65	.05	.01	.06	30	80	20

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
NOV				
04...	1315	1.3	7	.02

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JUN				
01...	1600	3.0	12	.10

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462941 TRIBUTARY TO ROCKY BRANCH NEAR PETERSON, AL (Lat 33 15 48 Long 087 23 58)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
MAR										
21...	1440	3.9	22	5.5	14.0	--	9	4	1.9	1.0
APR										
03...	2325	3.2	34	--	--	--	9	--	1.6	1.2
JUN										
02...	0950	.11	18	6.2	18.5	9.4	4	0	.5	.6

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)
MAR									
21...	2.0	.3	.4	6	0	5.2	--	--	--
APR									
03...	2.1	.3	.7	--	--	7.5	--	--	--
JUN									
02...	1.4	.3	.3	8	0	2.6	2.2	11	.00

DATE	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL ALUMINUM (AL) (UG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)
MAR									
21...	--	--	--	100000	120	160000	10	530	70
APR									
03...	--	--	--	40	140	50000	50	230	130
JUN									
02...	.03	.00	.03	--	60	--	600	--	180

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAR				
21...	1358	5.0	15600	211
21...	1425	4.5	15400	187
21...	1428	4.5	15400	187
21...	1434	4.0	11400	123
21...	1440	3.9	11400	120
APR				
02...	1115	3.0	5500	45
02...	1130	3.2	6140	53
02...	1145	E5.0	26200	--
02...	2315	3.0	5500	45
02...	2345	5.0	26150	353
03...	0003	4.6	21900	272
03...	0020	E4.0	7770	84
APR				
03...	0035	E5.5	43300	643
03...	0120	6.6	54300	968
03...	0142	5.7	13600	209
03...	0245	E4.3	5700	66
03...	0340	3.2	5590	48
03...	0415	E2.7	3010	--
03...	0420	2.7	3009	22
03...	0500	2.3	2340	15
03...	0616	1.9	2880	15
JUN				
02...	0950	.11	1200	.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462970 YELLOW CREEK NEAR WINDHAM SPRINGS, AL (Lat 33 25 23 Long 087 27 49)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
NOV								
04...	1550	.62	21	5.4	11.5	--	--	--
MAY								
31...	1340	.72	10	5.9	20.0	6.3	4	0

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
NOV									
04...	--	--	--	--	--	6	0	3.2	--
MAY									
31...	.6	.5	1.4	.3	.2	4	0	1.3	1.9

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)
NOV								
04...	--	--	--	--	--	--	--	--
MAY								
31...	8	.02	.01	.00	.01	60	190	90

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
NOV				
04...	1550	.62	34	.06

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462973 TRIBUTARY TO YELLOW CREEK NEAR WINDHAM SPRINGS, AL (Lat 33 25 07 Long 087 27 21)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
NOV								
04...	1430	.54	10	4.5	12.0	--	--	--
MAY								
31...	1230	.66	9	5.8	18.0	8.9	3	0

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
NOV									
04...	--	--	--	--	--	0	0	1.4	--
MAY									
31...	.3	.5	1.0	.3	.2	3	0	1.5	1.6

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)
NOV								
04...	--	--	--	--	--	--	--	--
MAY								
31...	4	.01	.01	.00	.01	70	130	0

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
NOV				
04...	1550	.54	1	.00

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAY				
31...	1230	.66	13	.02

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462980 YELLOW CREEK ABOVE NORTHPORT, AL (Lat 33 23 26 Long 087 28 30)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	DIS-SOLVED OXYGEN (MG/L)
NOV							
02...	1400	3.2	10	6.7	10.0	--	--
DEC							
08...	1200	4.2	12	6.2	6.5	30	--
JAN							
09...	1520	66	15	5.6	7.0	--	--
14...	1245	28	14	5.3	7.0	--	--
FEB							
16...	1330	4.2	11	6.3	5.5	--	--
MAR							
04...	0005	10	12	5.7	--	--	--
04...	0240	31	14	5.5	--	--	--
APR							
12...	1145	--	--	--	18.0	--	--
MAY							
13...	1015	--	--	5.1	15.5	--	--
19...	1105	4.6	8	6.0	17.5	--	--
JUN							
21...	1200	4.8	11	6.0	22.5	--	--
21...	1430	3.6	11	6.0	23.5	55	8.7
JUL							
18...	1210	--	11	6.0	23.0	--	7.7
18...	1250	3.4	--	6.0	23.0	--	7.7
AUG							
16...	0910	2.7	13	6.3	22.5	--	7.7
SEP							
21...	1320	4.2	12	5.9	20.5	50	8.6
26...	0815	--	10	--	17.0	--	--

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOL-VED SUL-FIDE (S) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	BENTHIC INVER-TEBRA-TES WET WEIGHT (G/SQ METER)	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)
NOV							
02...	5	0	--	1.1	--	--	--
DEC							
08...	4	0	.0	1.3	--	--	--
JAN							
09...	3	0	--	3.7	--	--	--
14...	4	0	--	2.5	--	--	--
FEB							
16...	10	0	--	2.3	--	--	--
MAR							
04...	5	0	--	1.4	--	--	--
04...	--	--	--	2.5	--	--	--
APR							
12...	--	--	--	--	.0	--	--
MAY							
13...	--	--	--	--	--	--	--
19...	--	--	--	1.5	--	--	--
JUN							
21...	--	--	--	--	--	--	--
21...	3	0	.0	1.2	--	--	--
JUL							
18...	12	0	--	--	1.3	193	10.4
18...	12	0	--	2.8	--	--	--
AUG							
16...	6	0	--	2.0	1.9	--	--
SEP							
21...	2	0	.2	1.3	--	--	--
26...	--	--	--	--	2.0	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462980 YELLOW CREEK ABOVE NORTHPORT, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
DEC										
08...	4	1	.8	.4	1.0	.2	.3	1.2	--	13
JAN										
09...	4	2	.6	.7	--	--	--	--	--	--
14...	3	0	.7	.4	--	--	--	--	--	--
FEB										
16...	--	--	--	--	--	--	--	--	--	--
MAR										
04...	4	0	1.1	.3	1.7	.4	.4	--	--	--
04...	2	--	.6	.1	.9	.3	.5	--	--	--
JUN										
21...	2	0	.4	.3	1.4	.4	.2	1.7	--	12
SEP										
21...	3	1	.5	.4	1.0	.3	.4	1.6	14	13

DATE	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL ALUMINUM (AL) (UG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	TOTAL ALUMINUM IN BOTTOM MATERIAL (UG/G)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)
DEC										
08...	.15	--	40	--	--	90	--	--	40	--
JAN										
09...	--	--	--	--	--	220	--	--	--	--
14...	--	--	--	--	--	170	--	--	--	--
FEB										
16...	--	20	10	280	450	60	1500	--	--	--
MAR										
04...	--	160	50	--	3600	110	--	100	40	--
04...	--	--	--	--	--	--	--	--	--	--
JUN										
21...	.12	180	10	10	1100	100	1200	30	30	140
SEP										
21...	.16	--	60	--	--	190	--	--	--	--

DATE	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)
DEC							
08...	.01	.00	.01	.12	.13	.01	.00
JUN							
21...	.00	.00	.00	.19	.19	.00	.00
SEP							
21...	.01	.00	.01	.22	.23	.01	.00

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462980 YELLOW CREEK ABOVE NORTHPORT, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
DEC											
08...	0	0	0	0	0	8	.1	0	40	0	8.2
FEB											
16...	1	0	0	0	0	0	.0	0	20	10	2.6
JUN											
21...	1	0	3	0	2	2	.0	0	0	20	5.8

DATE	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G)	TOTAL CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)
FEB											
16...	1	--	0	0	--	<10	10	--	<10	0	--
JUN											
21...	2	1	1	0	0	<10	<10	<7	10	0	0

DATE	TOTAL COBALT IN BOTTOM MA-TERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	TOTAL IRON IN BOTTOM MA-TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	SUS-PENDED MAN-GANESE (MN) (UG/L)	TOTAL MANGA-NESE IN BOTTOM MA-TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)
FEB											
16...	<10	2	--	<10	1500	8	--	<10	--	--	.0
JUN											
21...	<10	2	0	<10	1200	5	3	<10	0	140	.0

DATE	SUS-PENDED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	TOTAL SELE-NIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL STRON-TIUM (SR) (UG/L)	SUS-PENDED STRON-TIUM (SR) (UG/L)	TOTAL STRON-TIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)
FEB											
16...	--	.0	1	--	0	210	--	<10	20	10	270
JUN											
21...	.0	.0	0	0	0	0	0	<10	20	0	<10

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
NOV				
02...	1400	3.2	3	.03
JAN				
08...	1145	4.2	2	.02
09...	1458	66	281	50
09...	1500	66	314	56
FEB				
16...	1330	4.2	2	.02
MAR				
04...	0015	10	123	3.5
04...	0242	25	92	6.2
24...	1330	7.6	3	.06
MAY				
19...	1105	4.6	2	.02
JUN				
21...	1430	3.6	6	.06
JUL				
18...	1340	3.4	13	.12
AUG				
16...	0910	2.7	5	.04
SEP				
21...	1320	4.2	4	.05

02462980 YELLOW CREEK ABOVE NORTHPORT, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE	APR 12,77	MAY 13,77	JUN 21,77	JUL 18,77	AUG 16,77	SEP 26,77
TIME	1145	1015	1200	1210	0910	0815
TOTAL COUNT	62	14	222	136	171	156
DIVERSITY: PHYLUM	0.0	0.0	0.0	0.1	0.1	0.0
.CLASS	0.1	0.6	0.0	0.1	0.3	0.4
..ORDER	2.5	1.4	2.5	2.7	2.8	2.5
...FAMILY	3.7	1.4	3.7	3.6	3.8	3.2
....GENUS	4.0	1.4	4.2	4.1	4.3	3.7
....GENUS-INSECTA	4.0	0.9	4.2	4.1	4.1	3.5
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT	COUNT
ANNELIDA						
.OLIGOCHAETA						
..PROSOPORA						
...BRANCHIOBDELLIDAE						
....UNKNOWN GENUS	--	--	--	--	2	--
..UNKNOWN ORDER						
...UNKNOWN FAMILY						
....UNKNOWN GENUS	--	--	1	1	--	--
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT	COUNT
ARTHROPODA (ARTHROPODS)						
.ARACHNOIDEA						
..HYDRACARINA						
...UNKNOWN FAMILY						
....UNKNOWN GENUS	--	--	--	1	3	9
.CRUSTACEA						
..DECAPODA						
...ASTACIDAE						
....CAMBARUS	1	2	--	--	1	1
.INSECTA						
..COLEOPTERA						
...ELMIDAE						
....GONIELMIS	--	--	3	--	--	--
....OPTIOSERVUS	--	--	7	11	11	2
....OULIMNIUS	--	--	--	--	--	3
....STENELMIS	2	--	9	5	3	3
...PTILODACTYLIDAE						
....ANCHYTARSUS	1	--	23	9	15	38
..DIPTERA						
...CERATOPOGONIDAE						
....UNKNOWN GENUS	--	--	1	--	5	2
...CHIRONOMIDAE						
....CONCHAPELOPIA	--	--	--	--	--	1
....CRICOTOPUS	--	--	2	--	3	5
....MICROPSECTRA	--	--	--	1	--	4
....PARACLADOPELMA	--	--	--	--	1	--
....PARAMETRIOCNEMUS	1	--	2	--	--	11
....PHAENOPSECTRA	--	--	--	2	--	--
....PLECOPTERACOLUTHUS	--	--	--	2	--	--
....POLYPEDILUM	--	--	2	--	3	5
....RHEOTANYTARSUS	--	--	1	--	1	--
....SMITTIA	--	--	1	--	--	--
....TANYTARSUS	--	--	1	--	--	--
....THIENEMANNIELLA	--	--	1	--	--	--
....TRICHOCLADIUS	--	--	2	--	2	--
...EMPIDIDAE						
....UNKNOWN GENUS	--	--	--	1	1	--
...SIMULIIDAE						
....SIMULIUM	10	--	8	--	2	6
...TABANIDAE						
....TABANUS	1	--	--	1	5	2
...TIPULIDAE						
....DICRANOTA	4	--	4	4	--	--
....HEXATOMA	--	--	--	3	4	--
....PSEUDOLIMNOPHILA	1	--	--	--	1	2
....TIPULA	1	--	2	1	--	--
..EPHEMEROPTERA						
...BAETIDAE						
....BAETIS	--	--	1	5	4	1
....PSEUDOCLOEON	--	--	5	2	--	--
...CAENIDAE						
....CAENIS	--	--	1	1	1	--
...HEPTAGENIIDAE						

02462980 YELLOW CREEK ABOVE NORTHPORT, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE TIME	APR 12,77 1145	MAY 13,77 1015	JUN 21,77 1200	JUL 18,77 1210	AUG 16,77 0910	SEP 26,77 0815
....STENONEMA	7	8	29	11	25	18
...LEPTOPHLEBIIDAE						
....HABROPHLEBIODES	4	--	2	--	--	--
..HEMIPTERA						
...VELIIDAE						
....MICROVELIA	--	--	--	--	1	--
....RHAGOVELIA	--	--	1	2	--	--
..MEGALOPTERANS						
...CORYDALIDAE						
....CORYDALUS	3	--	6	9	5	3
....NIGRONIA	--	--	2	4	4	--
...SIALIDAE						
....SIALIS	1	--	1	--	3	--
..ODONATA						
...AESHNIDAE						
....BOYERIA	--	--	1	--	--	--
..PLECOPTERA						
...CAPNIIDAE						
....ALLOCAPNIA	2	--	24	10	4	1
...CHLOROPERLIDAE						
....ALLOPERLA	4	--	--	--	--	--
...PELTOPERLIDAE						
....PELTOPERLA	--	--	18	1	--	--
...PERLIDAE						
....ACRONEURIA	4	4	28	21	33	14
....NEOPERLA	2	--	--	2	6	2
....PERLESTA	--	--	3	--	--	--
..TRICHOPTERA						
...BRACHYCENTRIDAE						
....MICRASEMA	--	--	--	--	2	--
...HYDROPSYCHIDAE						
....CHEUMATOPSYCHE	7	--	21	19	11	22
....HYDROPSYCHE	3	--	3	--	1	1
...HYDROPTILIDAE						
....HYDROPTILA	--	--	2	2	1	--
....MAYATRICHIA	--	--	--	--	2	--
...LEPTOCERIDAE						
....OECETIS	--	--	1	--	1	--
...ODONTOCERIDAE						
....PSILOTRETA	1	--	1	3	3	--
...RHYACOPHILIDAE						
....RHYACOPHILA	1	--	2	--	--	--
...UNKNOWN FAMILY						
....UNKNOWN GENUS	1	--	--	--	--	--
..DIPTERA						
...CHIRONOMIDAE						
....PSECTROCLADIUS	--	--	--	2	--	--
PLATYHELMINTHES (FLATWORMS)						
.TURBELLARIA						
..TRICLADIDA						
...UNKNOWN FAMILY						
....UNKNOWN GENUS	--	--	--	--	1	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462985 UNNAMED TRIBUTARY TO YELLOW CREEK NEAR NORTHPORT, AL (Lat 33 23 18 Long 087 27 51)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	DIS-SOLVED OXYGEN (MG/L)
NOV							
02...	1430	2.7	8	6.6	11.5	--	--
DEC							
08...	1455	3.4	--	6.8	7.0	10	--
JAN							
14...	1120	12	18	5.7	7.0	--	--
MAR							
03...	2350	4.0	--	5.7	--	--	--
APR							
14...	1130	--	--	--	17.0	--	--
MAY							
13...	1215	--	--	5.8	16.0	--	--
19...	0930	3.5	7	5.2	15.5	--	--
JUN							
07...	1005	--	--	--	--	--	--
21...	1330	2.5	8	6.3	22.5	--	--
22...	1100	2.5	--	6.3	20.5	55	8.6
JUL							
19...	0800	--	10	5.8	21.0	--	--
21...	1045	1.0	10	5.8	21.0	--	--
AUG							
16...	1230	1.9	14	6.0	21.5	--	8.3
SEP							
26...	0915	--	10	--	17.0	--	--

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOL-VED SUL-FIDE (S) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	BENTHIC INVER-TEBRA-TES WET WEIGHT (G/SQ METER)	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)
NOV							
02...	4	0	--	1.4	--	--	--
DEC							
08...	8	0	.0	.7	--	--	--
JAN							
14...	4	0	--	2.9	--	--	--
MAR							
03...	6	0	--	2.2	--	--	--
APR							
14...	--	--	--	--	.0	--	--
MAY							
13...	--	--	--	--	.0	--	--
19...	--	--	--	--	--	--	--
JUN							
07...	--	--	--	--	--	4.05	4.65
21...	--	--	--	--	.0	23.4	20.3
22...	3	0	.0	.7	--	--	--
JUL							
19...	4	0	--	--	1.5	21.1	25.1
21...	4	0	--	2.2	--	--	--
AUG							
16...	4	0	--	1.5	1.5	--	--
SEP							
26...	--	--	--	--	.8	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462985 TRIBUTARY TO YELLOW CREEK NEAR NORTHPORT, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
DEC										
08...	2	0	.7	.1	.9	.3	.2	1.2	--	15
JAN										
14...	3	0	.7	.4	--	--	--	--	19	--
MAR										
03...	4	0	1.3	.2	2.4	.5	.4	--	--	--
MAY										
19...	1	0	.3	.1	1.2	.5	.1	--	--	--
JUN										
22...	2	0	.1	.3	1.3	.5	.3	1.3	11	12

DATE	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL ALUMINUM (AL) (UG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	TOTAL ALUMINUM IN BOTTOM MATERIAL (UG/G)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)
DEC										
08...	.14	--	40	--	--	60	--	--	20	--
JAN										
14...	.62	--	--	--	--	100	--	--	--	--
MAR										
03...	--	--	80	--	260	80	--	--	20	--
MAY										
19...	--	--	10	--	--	30	--	--	10	--
JUN										
22...	.07	30	20	10	410	100	300	10	10	20

DATE	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)
DEC							
08...	.00	.00	.00	.14	.14	.00	.00
JUN							
22...	.01	.00	.01	.27	.28	.00	.00

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
DEC											
08...	1	0	0	0	0	0	.1	0	40	10	8.4
JUN											
22...	1	0	0	0	2	13	.0	0	30	20	6.2

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462985 TRIBUTARY TO YELLOW CREEK NEAR NORTHPORT, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G)	TOTAL CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)
JUN											
22...	1	0	0	0	0	<10	<10	<10	<10	0	0

DATE	TOTAL COBALT IN BOTTOM MA-TERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	TOTAL IRON IN BOTTOM MA-TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	SUS-PENDED MAN-GANESE (MN) (UG/L)	TOTAL MANGA-NESE IN BOTTOM MA-TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)
JUN											
22...	<10	2	0	<10	300	20	7	<10	0	20	.0

DATE	SUS-PENDED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	TOTAL SELE-NIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL STRON-TIUM (SR) (UG/L)	SUS-PENDED STRON-TIUM (SR) (UG/L)	TOTAL STRON-TIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)
JUN											
22...	.0	.0	0	0	0	30	0	<10	20	0	10

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
NOV				
02...	1430	2.7	1	.01
DEC				
08...	1145	4.2	2	.02
08...	1505	3.4	12	.11
JAN				
14...	1120	12	14	.45
FEB				
16...	1400	3.0	2	.20
MAR				
03...	2340	4.0	4	.04
04...	0048	11	18	.53
04...	0112	18	75	3.6
04...	0145	29	156	12

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
MAR				
04...	0305	8.5	--	--
04...	0605	--	186	--
24...	1418	5.0	2	.03
MAY				
19...	0925	3.6	0	.00
JUN				
22...	1100	2.5	6	.04
JUL				
21...	1045	1.0	4	.01
AUG				
16...	1230	1.9	3	.02

02462985 TRIBUTARY TO YELLOW CREEK NEAR NORTHPORT, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE	APR 14,77	MAY 13,77	JUN 21,77	JUL 19,77	AUG 16,77	SEP 26,77
TIME	1130	1215	1330	0800	1230	0915
TOTAL COUNT	65	52	438	425	248	706
DIVERSITY: PHYLUM	0.4	0.0	0.1	0.1	0.1	0.0
.CLASS	0.6	0.0	0.1	0.1	0.1	0.1
..ORDER	2.6	2.0	2.0	2.2	2.4	1.1
...FAMILY	3.3	3.4	3.5	3.4	3.6	2.1
....GENUS	3.6	3.6	3.9	3.9	4.1	2.6
....GENUS-INSECTA	3.4	3.6	3.8	3.8	4.0	2.6
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT	COUNT
ANNELIDA						
.OLIGOCHAETA						
..PROSOPORA						
...BRANCHIOBDELLIDAE						
....UNKNOWN GENUS	--	--	2	--	--	--
..UNKNOWN ORDER						
...UNKNOWN FAMILY						
....UNKNOWN GENUS	5	--	2	4	2	2
ARTHROPODA (ARTHROPODS)						
.ARACHNOIDEA						
..HYDRACARINA						
...UNKNOWN FAMILY						
....UNKNOWN GENUS	--	--	1	2	2	2
.CRUSTACEA						
..DECAPODA						
...ASTACIDAE						
....CAMBARUS	1	--	--	--	--	--
..ISOPODA						
...ASELLIDAE						
....LIRCEUS	1	--	--	--	--	--
..PODOCOPA						
...UNKNOWN FAMILY						
....UNKNOWN GENUS	--	--	1	--	--	--
.INSECTA						
..COLEOPTERA						
...ELMIDAE						
....OPTIOSERVUS	--	2	12	29	36	55
....OULIMNIUS	--	--	--	2	2	377
....STENELMIS	--	--	1	8	2	--
...PSEPHENIDAE						
....PSEPHENUS	--	--	--	4	1	71
...PTILODACTYLIDAE						
....ANCHYTARSUS	1	--	14	9	6	50
..DIPTERA						
...CERATOPOGONIDAE						
....UNKNOWN GENUS	--	1	5	1	--	8
...CHIRONOMIDAE						
....CHIRONOMUS	--	--	2	--	--	--
....CONCHAPELOPIA	--	--	2	2	1	--
....CORYNONEURA	--	--	1	--	--	--
....CRICOTOPUS	--	--	--	--	2	--
....EUKIEFFERIELLA	--	2	--	--	--	2

02462985 TRIBUTARY TO YELLOW CREEK NEAR NORTHPORT, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE	APR 14,77	MAY 13,77	JUN 21,77	JUL 19,77	AUG 16,77	SEP 26,77
TIME	1130	1215	1330	0800	1230	0915
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT	COUNT
....HETEROTRISSOCLADIUS	--	--	--	--	--	6
....MICROPSECTRA	--	--	--	11	--	16
....PARACLADOPELMA	--	--	--	1	--	--
....PARAMETRIOCNEMUS	--	--	1	--	--	--
....POLYPEDILUM	--	--	--	4	6	54
....PROCLADIUS	--	--	1	--	--	--
....RHEOTANYTARSUS	--	2	--	--	--	--
....SMITTIA	--	--	1	--	2	--
....TANYTARSUS	--	--	5	--	7	--
....THIENEMANNIELLA	--	--	1	4	4	2
....UNKNOWN GENUS	--	--	--	--	--	1
....ZAVRELIA	--	--	--	--	2	--
...EMPIDIDAE						
....UNKNOWN GENUS	--	--	--	--	1	--
...SIMULIIDAE						
....SIMULIUM	1	2	3	--	8	2
...TABANIDAE						
....TABANUS	7	2	1	6	12	7
...TIPULIDAE						
....ANTOCHA	--	--	--	9	12	1
....DICRANOTA	2	1	5	1	--	--
....HEXATOMA	2	--	4	3	1	10
....PSEUDOLIMNOPHILA	--	--	--	--	--	1
....TIPULA	4	--	1	1	--	1
..EPHEMEROPTERA						
...BAETIDAE						
....BAETIS	1	--	8	4	5	1
....PSEUDOCLOEON	--	4	11	10	--	--
...CAENIDAE						
....CAENIS	--	--	3	--	--	--
...HEPTAGENIIDAE						
....EPEORUS	--	--	--	--	1	--
....RHITHROGENA	7	1	2	--	--	--
....STENONEMA	3	5	20	81	38	5
...LEPTOPHLEBIIDAE						
....HABROPHLEBIODES	--	3	3	--	--	--
..HEMIPTERA						
...VELIIDAE						
....RHAGOVELIA	--	--	--	--	--	1
..MEGALOPTERANS						
...CORYDALIDAE						
....NIGRONIA	2	1	15	22	--	--
...SIALIDAE						
....SIALIS	--	--	7	--	--	--
..ODONATA						
...AESHNIDAE						
....BOYERIA	--	--	2	--	2	--
...CORDULEGASTRIDAE						
....CORDULEGASTER	1	--	--	--	--	--
...GOMPHIDAE						
....LANTHUS	--	--	1	--	--	--
..PLECOPTERA						
...CAPNIIDAE						
....ALLOCAPNIA	--	3	74	47	27	--
...CHLOROPERLIDAE						
....ALLOPERLA	18	--	--	--	--	--
...PELTOPERLIDAE						
....PELTOPERLA	--	7	81	57	11	7
...PERLIDAE						
....ACRONEURIA	3	13	14	35	27	13
....NEOPERLA	--	--	1	--	--	--

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE	APR 14,77	MAY 13,77	JUN 21,77	JUL 19,77	AUG 16,77	SEP 26,77
TIME	1130	1215	1330	0800	1230	0915
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT	COUNT
....PERLESTA	--	--	87	48	6	--
..TRICHOPTERA						
...BRACHYCENTRIDAE						
....MICRASEMA	--	--	--	--	1	--
...GLOSSOSOMATIDAE						
....GLOSSOSOMA	--	--	--	--	--	1
...HYDROPSYCHIDAE						
....CHEUMATOPSYCHE	3	3	31	--	--	3
....DIPLECTRONA	--	--	4	14	16	1
...HYDROPTILIDAE						
....HYDROPTILA	--	--	4	3	1	2
....MAYATRICHIA	--	--	--	--	2	--
...LEPTOCERIDAE						
....OECETIS	--	--	--	1	--	--
...LIMNEPHILIDAE						
....GOERA	--	--	--	--	--	1
....NEOPHYLAX	2	--	--	--	--	--
...ODONTOCERIDAE						
....PSILOTRETA	--	--	1	--	1	--
...PHILOPOTAMIDAE						
....CHIMARRA	1	--	--	--	--	--
...POLYCENTROPODIDAE						
....POLYCENTROPUS	--	--	1	--	--	--
...RHYACOPHILIDAE						
....RHYACOPHILA	--	--	1	1	1	3
..DIPTERA						
...CHIRONOMIDAE						
....PSECTROCLADIUS	--	--	--	1	--	--
..TRICHOPTERA						
...PHILOPOTAMIDAE						
....DOLOPHILODES	--	--	1	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462991 TRIBUTARY TO YELLOW CREEK ABOVE WATERMELON ROAD NEAR TUSCALOOSA, AL (Lat 33 21 38 Long 087 27 39)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	DISSOLVED OXYGEN (MG/L)
FEB							
10...	1545	2.4	14	--	8.0	--	--
12...	1200	5.4	20	7.1	9.5	--	--
MAR							
04...	0100	11	13	6.4	12.0	--	--
04...	0200	31	13	6.2	12.0	--	--
04...	0305	38	13	5.8	12.0	--	--
04...	0400	37	19	6.0	11.0	--	--
04...	0945	21	14	6.1	11.0	--	--
04...	2345	8.0	15	6.1	12.0	--	--
APR							
08...	1400	4.6	25	6.4	18.0	--	--
08...	1430	--	25	6.1	18.0	--	--
13...	1225	4.6	17	6.4	19.0	--	--
15...	1030	--	18	7.5	16.0	--	--
27...	0950	5.3	13	6.6	--	--	--
MAY							
17...	0940	3.3	13	5.8	16.0	--	--
JUN							
20...	1100	2.0	13	6.1	22.5	--	--
20...	1230	2.0	13	6.1	24.5	33	8.5
JUL							
19...	0830	2.6	13	5.4	21.0	--	8.4
20...	1130	--	13	5.4	21.0	--	8.4
AUG							
17...	0900	2.5	19	6.2	21.5	--	7.7
SEP							
20...	1330	--	14	--	22.0	--	--
22...	1330	2.1	--	6.4	22.0	35	7.4

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFIDE (S) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	BENTHIC INVERTEBRATES WET WEIGHT (G/SQ METER)	CHLOR-A PERIPHYTON CHROMOGRAPHIC FLUOROM (MG/M2)	CHLOR-B PERIPHYTON CHROMOGRAPHIC FLUOROM (MG/M2)
FEB							
10...	6	0	--	1.3	--	--	--
12...	6	0	--	2.2	--	--	--
MAR							
04...	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--
04...	6	0	--	3.4	--	--	--
04...	--	--	--	--	--	--	--
04...	6	0	--	2.4	--	--	--
APR							
08...	--	--	--	--	.0	--	--
08...	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--
MAY							
17...	--	--	--	--	--	--	--
JUN							
20...	--	--	--	--	--	8.82	2.95
20...	4	0	.0	1.0	--	--	--
JUL							
19...	4	0	--	2.9	--	--	--
20...	4	0	--	--	.9	--	--
AUG							
17...	6	0	--	2.7	1.1	--	--
SEP							
20...	--	--	--	--	1.1	--	--
22...	4	0	.0	2.5	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462991 TRIBUTARY TO YELLOW CREEK ABOVE WATERMELON ROAD NEAR TUSCALOOSA, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	HARDNESS (CA.MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
FEB										
10...	--	--	--	--	--	--	--	--	--	--
12...	5	0	1.0	.5	--	--	--	--	18	--
MAR										
04...	4	0	.8	.6	1.5	.3	.8	--	17	--
04...	5	0	1.5	.4	2.1	.4	.6	--	14	--
MAY										
17...	2	--	.7	.1	2.5	.7	.2	--	--	--
JUN										
20...	3	0	.6	.4	1.0	.2	.2	1.3	12	13
SEP										
22...	4	1	.6	.5	1.1	.3	.4	1.3	17	16

DATE	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL ALUMINUM (AL) (UG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	TOTAL ALUMINUM IN BOTTOM MATERIAL (UG/G)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)
FEB										
10...	--	170	20	2300	350	100	8200	--	--	--
12...	.26	1400	30	--	2600	60	--	40	20	--
MAR										
04...	1.70	1400	60	--	2000	50	--	70	10	--
04...	.30	1800	10	--	10000	40	--	140	40	--
MAY										
17...	--	--	0	--	--	20	--	--	0	--
JUN										
20...	.06	110	10	10	460	30	2500	70	60	380
SEP										
22...	.10	--	0	--	--	160	--	--	--	--

DATE	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)
JUN							
20...	.02	.00	.02	.74	.76	.02	.02
SEP							
22...	.01	.00	.01	.13	.14	.03	.00

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
FEB											
10...	0	0	0	0	2	3	.1	0	0	0	1.4
JUN											
20...	1	0	1	0	0	2	.0	0	10	0	5.2

MOBILE RIVER BASIN

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462991 TRIBUTARY TO YELLOW CREEK ABOVE WATERMELON ROAD NEAR TUSCALOOSA, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G)	TOTAL CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)
FEB											
10...	--	--	10	0	--	<10	<10	--	60	0	--
JUN											
20...	2	1	5	0	0	<10	<10	<9	10	0	0

DATE	TOTAL COBALT IN BOTTOM MA-TERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	TOTAL IRON IN BOTTOM MA-TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	SUS-PENDED MAN-GANESE (MN) (UG/L)	TOTAL MANGA-NESE IN BOTTOM MA-TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)
FEB											
10...	<10	3	--	<10	8200	4	--	<10	--	--	--
JUN											
20...	<10	4	4	<10	2500	6	4	<10	10	380	.0

DATE	SUS-PENDED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	TOTAL SELE-NIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL STRON-TIUM (SR) (UG/L)	SUS-PENDED STRON-TIUM (SR) (UG/L)	TOTAL STRON-TIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)
FEB											
10...	--	.2	--	--	1	0	--	<10	10	10	10
JUN											
20...	.0	.0	0	0	0	10	0	<10	10	10	20

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
JAN				
28...	0840	3.4	109	1.0
FEB				
10...	1545	2.4	12	.08
12...	1200	5.4	68	.99
24...	1340	6.7	28	.51
MAR				
02...	2345	8.0	--	--
03...	2350	3.0	192	1.6
04...	0100	11	505	15
04...	0200	31	689	58
04...	0305	38	641	66
04...	0400	37	333	33
04...	2100	21	368	21
28...	1030	14	1202	45
28...	1632	5.4	38	.55
APR				
01...	1450	7.0	69	1.3
02...	2200	5.5	31	.46
02...	2250	14	2250	89
APR				
02...	2355	24	3010	195
03...	0025	4.0	1660	18
03...	0310	30	406	33
03...	0515	20	193	10
03...	0930	14	104	3.9
13...	1245	4.6	6	.07
MAY				
09...	1550	3.6	296	2.9
16...	0925	3.3	32	.29
JUN				
20...	1230	2.0	9	.05
JUL				
19...	0815	2.6	39	.27
AUG				
17...	0900	2.5	18	.12
SEP				
22...	1315	2.1	2	.01

02462991 TRIBUTARY TO YELLOW CREEK ABOVE WATERMELON ROAD NEAR TUSCALOOSA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE	APR 8,77	JUN 20,77	JUL 20,77	AUG 17,77	SEP 20,77
TIME	1400	1100	1130	0900	1330
TOTAL COUNT	124	3	90	38	75
DIVERSITY: PHYLUM	0.3	0.0	0.1	0.0	0.0
.CLASS	0.5	0.9	0.2	0.0	0.0
..ORDER	2.3	0.9	2.0	2.4	2.4
...FAMILY	3.7	0.9	3.1	3.2	3.4
....GENUS	4.1	1.6	3.3	3.4	3.9
....GENUS-INSECTA	3.9	1.0	3.1	3.4	3.9
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT
ANNELIDA					
.OLIGOCHAETA					
..PROSOPORA					
...BRANCHIOBDELLIDAE					
....UNKNOWN GENUS	6	--	--	--	--
..UNKNOWN ORDER					
...UNKNOWN FAMILY					
....UNKNOWN GENUS	1	--	1	--	--
ARTHROPODA (ARTHROPODS)					
.ARACHNOIDEA					
..HYDRACARINA					
...UNKNOWN FAMILY					
....UNKNOWN GENUS	2	--	--	--	--
.CRUSTACEA					
..DECAPODA					
...ASTACIDAE					
....UNKNOWN GENUS	1	--	--	--	--
....ORCONECTES	--	--	1	--	--
..PODOCOPA					
...UNKNOWN FAMILY					
....UNKNOWN GENUS	--	1	--	--	--
.INSECTA					
..COLEOPTERA					
...DRYOPIDAE					
....HELICHUS	4	--	1	--	1
...ELMIDAE					
....OULIMNIUS	1	--	--	--	3
....STENELMIS	2	--	--	--	--
...PSEPHENIDAE					
....PSEPHENUS	1	--	--	--	--
...PTILODACTYLIDAE					
....ANCHYTARSUS	3	--	2	--	5
..DIPTERA					
...CERATOPOGONIDAE					
....UNKNOWN GENUS	1	--	--	1	1
...CHIRONOMIDAE					
....ABLABESMYIA	--	--	1	--	--
....CONCHAPELOPIA	3	1	3	--	3
....EUKIEFFERIELLA	1	--	--	--	--
....MICROTENDIPES	--	1	--	--	--
....PARACLADOPELMA	1	--	--	--	--
....PARAMETRIOCNEMUS	1	--	--	--	--

02462991 TRIBUTARY TO YELLOW CREEK ABOVE WATERMELON ROAD NEAR TUSCALOOSA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE	APR 8,77	JUN 20,77	JUL 20,77	AUG 17,77	SEP 20,77
TIME	1400	1100	1130	0900	1330
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT
....PLECOPTERACOLUTHUS	--	--	1	--	--
....POLYPEDILUM	--	--	--	2	--
...SIMULIIDAE					
....SIMULIUM	1	--	1	--	--
...TABANIDAE					
....TABANUS	--	--	1	--	--
...TIPULIDAE					
....DICRANOTA	--	--	--	--	1
....HEXATOMA	1	--	--	1	3
....PSEUDOLIMNOPHILA	1	--	--	--	--
....TIPULA	2	--	--	1	--
..EPHEMEROPTERA					
...BAETIDAE					
....BAETIS	--	--	--	--	1
....PSEUDOCLOEON	--	--	--	--	1
...CAENIDAE					
....CAENIS	--	--	1	2	2
...EPHEMERELLIDAE					
....EPHEMERELLA	4	--	--	--	--
...EPHEMERIDAE					
....HEXAGENIA	1	--	--	--	--
...HEPTAGENIIDAE					
....STENONEMA	11	--	5	--	6
...LEPTOPHLEBIIDAE					
....HABROPHLEBIODES	1	--	--	--	--
..MEGALOPTERANS					
...CORYDALIDAE					
....CORYDALUS	--	--	--	--	1
....NIGRONIA	--	--	7	3	2
...SIALIDAE					
....SIALIS	1	--	8	4	1
..ODONATA					
...CORDULEGASTRIDAE					
....CORDULEGASTER	1	--	--	--	--
...GOMPHIDAE					
....DROMOGOMPHUS	--	--	2	2	--
....LANTHUS	1	--	1	5	2
..PLECOPTERA					
...CAPNIIDAE					
....ALLOCAPNIA	6	--	29	4	6
...CHLOROPERLIDAE					
....ALLOPERLA	4	--	--	--	--
...PELTOPERLIDAE					
....PELTOPERLA	28	--	5	1	3
...PERLIDAE					
....ACRONEURIA	17	--	18	8	13
....ATOPERLA	--	--	--	--	3
....NEOPERLA	11	--	1	--	7
..TRICHOPTERA					
...HYDROPSYCHIDAE					
....CHEUMATOPSYCHE	3	--	1	4	10
....HYDROPSYCHE	1	--	--	--	--
...POLYCENTROPODIDAE					
....POLYCENTROPUS	1	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02462992 YELLOW CREEK AT WATERMELON ROAD NEAR TUSCALOOSA, AL (Lat 33 21 36 Long 087 27 40)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
FEB 10...	1730	12	9	8.0	6	0	2.0

DATE	TOTAL ALUMINUM (AL) (UG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	TOTAL ALUMINUM IN BOTTOM MATERIAL (UG/G)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)
FEB 10...	100	10	400	340	30	1700

DATE	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL BORON (B) (UG/L)	DISSOLVED BORON (B) (UG/L)	TOTAL BORON IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM (CD) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)
FEB 10...	0	2	40	0	0	0	0	<10	<10	0	10	0

DATE	DISSOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL LITHIUM (LI) (UG/L)	DISSOLVED LITHIUM (LI) (UG/L)
FEB 10...	0	<10	10	1	<10	1700	10	3	40	0	0

DATE	DISSOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	DISSOLVED SELENIUM (SE) (UG/L)	TOTAL SELENIUM IN BOTTOM MATERIAL (UG/G)	TOTAL STRONTIUM (SR) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	TOTAL STRONTIUM IN BOTTOM MATERIAL (UG/G)	TOTAL ZINC (ZN) (UG/L)	SUSPENDED ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)
FEB 10...	.1	.2	0	0	0	0	<10	10	0	20	10

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JAN 25...	0800	29	32	2.5
28...	0800	29	32	2.5
FEB 10...	1730	12	2	.06

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02463090 CYPRESS CREEK NEAR HOLT, AL (Lat 33 15 38 Long 087 27 58)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)
JUN 02...	1215	90	4.6	22.0	8.8	22	22	2.9	3.7	1.8	.2	.6

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)
JUN 02...	1	0	29	2.1	49	.15	.00	.15	270	320	2200

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JUN 02...	1215	2.0	21	.11

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02463840 LITTLE TYRO CREEK NEAR SANDTOWN, AL (Lat 33 36 02 Long 087 39 25)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
NOV								
05...	1230	.16	350	6.4	14.0	--	--	--
JUN								
02...	1045	.09	560	6.6	20.0	7.3	250	220

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
NOV									
05...	--	--	--	--	--	22	0	130	--
JUN									
02...	44	33	6.6	.2	3.3	30	0	240	3.0

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)
NOV								
05...	--	--	--	--	--	--	--	--
JUN								
02...	412	.10	.18	.00	.18	50	3100	11000

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
NOV				
05...	1230	.16	4	.00
JUN				
02...	1045	.09	16	.00

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02463850 TYRO CREEK NEAR NEW LEXINGTON, AL (Lat 33 33 58 Long 087 34 34)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
NOV 04...	1300	.86	210	6.3	9.0	--	--	--	--	--	--	--
JUN 01...	1330	--	300	6.0	25.5	6.5	140	130	24	19	3.3	.1

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)
NOV 04...	--	7	0	80	--	--	--	--	--	--	--	--
JUN 01...	2.3	6	0	120	2.2	196	.06	.00	.06	40	90	3300

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
NOV 04...	1300	.86	7	.02

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JUN 01...	1330	--	11	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02463880 TRIBUTARY TO BEAR CREEK NEAR SAMANTHA, AL (Lat 33 33 49 Long 087 32 12)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
NOV								
04...	1430	.13	52	6.8	10.0	24	0	4.3

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
NOV				

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02463890 DRY BRANCH NEAR SAMANTHA, AL (Lat 33 32 33 Long 087 32 22)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFIDE (S) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	BENTHIC INVERTEBRATES WET WEIGHT (G/SQ METER)
NOV											
03...	1355	.03	33	6.8	10.0	--	14	0	--	3.4	--
DEC											
06...	1540	.30	28	6.2	8.5	15	7	0	.0	2.3	--
JAN											
06...	1230	.80	21	6.3	7.5	--	8	0	--	3.4	--
09...	1845	18	18	6.2	10.0	--	7	0	--	3.6	--
FEB											
16...	1015	2.0	21	6.8	3.0	--	10	0	--	2.6	--
MAR											
04...	0040	15	20	6.1	12.0	--	14	0	--	3.8	--
04...	0300	60	19	6.2	11.0	--	8	0	--	4.2	--
12...	1230	35	15	6.4	11.5	--	6	0	--	3.7	--
12...	1630	24	15	6.5	14.0	--	6	0	--	3.5	--
APR											
02...	2245	60	19	--	--	--	--	--	--	--	--
02...	2320	80	33	--	--	--	--	--	--	2.6	--
02...	2350	21	17	--	--	--	--	--	--	--	--
03...	0030	20	20	--	--	--	--	--	--	--	--
03...	0130	20	26	--	--	--	--	--	--	--	--
03...	0230	25	18	--	--	--	--	--	--	3.7	--
03...	0430	22	19	--	--	--	--	--	--	--	--
03...	0700	20	18	--	--	--	--	--	--	3.8	--
10...	1100	1.2	24	6.5	17.5	--	--	--	--	--	.0
11...	1350	1.2	24	6.5	17.0	--	--	--	--	--	--
MAY											
10...	0930	.25	--	6.3	14.0	--	--	--	--	--	.0
18...	1110	.15	28	6.3	19.0	--	--	--	--	4.0	--
SEP											
21...	1030	--	43	--	17.0	--	--	--	--	--	2.2

DATE	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
DEC									
06...	7	1	1.3	1.0	1.7	.3	.7	1.6	21
JAN									
09...	5	0	.7	.9	--	--	--	--	--
FEB									
16...	--	--	--	--	--	--	--	--	--
MAR									
04...	5	0	1.3	.5	1.5	.3	.7	--	--
04...	7	1	1.6	.8	1.2	.2	.9	--	--
12...	2	0	.3	.4	1.2	.3	.7	--	--
12...	2	0	.2	.4	1.2	.4	.7	--	--
APR									
02...	7	--	1.4	.9	1.2	.2	.8	--	--
03...	5	--	.9	.6	1.3	.3	.7	--	--
03...	7	--	1.5	.9	1.5	.2	.7	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02463890 DRY BRANCH NEAR SAMANTHA, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL ALUM-INUM (AL) (UG/L)	DIS-SOLVED ALUM-INUM (AL) (UG/L)	TOTAL ALUMI-NUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MA-TERIAL (UG/G)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)
DEC									
06...	.02	--	30	--	--	40	--	--	0
JAN									
09...	--	--	--	--	--	10	--	--	--
FEB									
16...	--	30	10	2000	360	20	15000	--	--
MAR									
04...	--	1400	80	--	11000	60	--	140	50
04...	--	1000	80	--	1400	40	--	70	10
12...	--	300	80	--	330	20	--	20	10
12...	--	540	30	--	690	30	--	30	10
APR									
02...	--	1300	40	--	3400	50	--	160	20
03...	--	850	60	--	1400	50	--	70	10
03...	--	370	40	--	610	30	--	20	10

DATE	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)
DEC							
06...	.01	.00	.01	.16	.17	.00	.00

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
DEC											
06...	1	0	0	0	0	0	.1	0	50	5	8.8
FEB											
16...	0	0	0	0	0	0	.0	0	20	0	.6

DATE	TOTAL ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM MA-TERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	TOTAL IRON IN BOTTOM MA-TERIAL (UG/G)
FEB											
16...	1	3	0	<10	<10	10	0	<10	0	<10	15000

DATE	TOTAL LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	TOTAL SELE-NIUM (SE) (UG/L)	TOTAL SELE-NIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL STRON-TIUM (SR) (UG/L)	TOTAL STRON-TIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)
FEB											
16...	3	<10	.0	.0	1	0	80	<10	0	0	20

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02463890 DRY BRANCH NEAR SAMANTHA, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
NOV				
03...	1400	.30	2	.00
DEC				
06...	1540	.30	3	.00
JAN				
06...	1230	.80	26	.06
09...	1837	21	17	.96
09...	1838	28	16	1.2
09...	1839	21	15	.85
14...	1035	10	9	.25
FEB				
16...	1015	2.0	2	.01
MAR				
04...	0040	15	153	6.2
04...	0300	60	212	34
04...	0310	60	212	34
12...	1230	35	28	2.6
12...	1630	24	12	.78
12...	1650	1.8	12	.06
MAR				
14...	1035	9.7	9	.24
25...	1100	1.3	0	.00
APR				
02...	2245	60	89	14
02...	2320	80	140	30
02...	2350	21	207	12
03...	0030	20	73	3.9
03...	0130	20	47	2.5
03...	0230	25	73	4.9
03...	0430	22	210	12
03...	0700	20	26	1.4
11...	1445	9.0	26	.63
MAY				
18...	1110	.15	31	.01
SEP				
07...	0035	1.9	40	.21

02463890 DRY BRANCH NEAR SAMANTHA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE	APR 10,77	MAY 10,77	SEP 21,77
TIME	1100	0930	1030
TOTAL COUNT	233	125	58
DIVERSITY: PHYLUM	0.0	0.0	0.0
.CLASS	1.1	0.8	0.9
..ORDER	2.6	2.5	1.1
...FAMILY	3.6	3.0	1.4
....GENUS	3.8	3.1	1.4
....GENUS-INSECTA	3.8	3.0	1.8
ORGANISM	COUNT	COUNT	COUNT
ARTHROPODA (ARTHROPODS)			
.ARACHNOIDEA			
..HYDRACARINA			
...UNKNOWN FAMILY			
....UNKNOWN GENUS	24	--	--
.CRUSTACEA			
..ISOPODA			
...ASELLIDAE			
....LIRCEUS	44	27	40
.INSECTA			
..COLEOPTERA			
...DRYOPIDAE			
....HELICHUS	7	30	10
...ELMIDAE			
....DUBIRAPHIA	2	--	--
....STENELMIS	--	--	1
...PSEPHENIDAE			
....PSEPHENUS	4	6	4
..DIPTERA			
...CHIRONOMIDAE			
....ABLABESMYIA	1	--	--
....CONCHAPELOPIA	--	--	1
....CORYNONEURA	--	1	--
....FUKIEFFERIELLA	--	1	--
....MICROTENDIPES	1	--	--
....TANYTARSUS	1	--	--
...SIMULIIDAE			
....SIMULIUM	7	--	--
...TIPULIDAE			
....ANTOCHA	1	--	--
....HEXATOMA	--	1	--
....PSEUDOLIMNOPHILA	3	3	--
....TIPULA	3	2	--
..EPHEMEROPTERA			
...BAETIDAE			
....BAETIS	8	--	--
....PSEUDOCLOEON	50	--	--
...EPHEMERELLIDAE			
....EPHEMERELLA	6	--	--
...HEPTAGENIIDAE			
....RHITHROGENA	1	--	--
....STENONEMA	14	4	--
...LEPTOPHLEBIIDAE			

02463890 DRY BRANCH NEAR SAMANTHA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE TIME	APR 10,77 1100	MAY 10,77 0930	SEP 21,77 1030
ORGANISM	COUNT	COUNT	COUNT
....HABROPHLEBIODES	2	19	--
...SIPHLONURIDAE			
....ISONYCHIA	--	2	--
..MEGALOPTERANS			
...CORYDALIDAE			
....CORYDALUS	--	1	--
....NIGRONIA	--	3	2
..ODONATA			
...GOMPHIDAE			
....LANTHUS	4	--	--
..PLECOPTERA			
...CAPNIIDAE			
....ALLOCAPNIA	2	--	--
...CHLOROPERLIDAE			
....ALLOPERLA	11	--	--
...NEMOURIDAE			
....NEMOURA	14	--	--
...PERLIDAE			
....ACRONEURIA	9	20	--
...PERLODIDAE			
....ISOGENUS	5	--	--
..TRICHOPTERA			
...HYDROPSYCHIDAE			
....CHEUMATOPSYCHE	6	3	--
...LEPIDOSTOMATIDAE			
....LEPIDOSTOMA	1	1	--
...POLYCENTROPODIDAE			
....POLYCENTROPUS	1	--	--
...RHYACOPHILIDAE			
....RHYACOPHILA	1	--	--
...PHILOPOTAMIDAE			
....DOLOPHILODES	--	1	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02464020 JOHNSON BRANCH NEAR UTLEY, AL (Lat 33 30 32 Long 087 32 24)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
NOV								
04...	1030	.09	56	6.7	6.0	--	--	--
JUN								
01...	1030	.02	56	5.6	17.5	7.8	19	0

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
NOV									
04...	--	--	--	--	--	32	0	4.3	--
JUN									
01...	3.4	2.6	3.0	.3	1.1	24	0	5.3	1.8

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)
NOV								
04...	--	--	--	--	--	--	--	--
JUN								
01...	38	.02	.09	.00	.09	40	30	20

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
NOV				
04...	1000	.10	1	.00

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JUN				
01...	1030	.02	9	.00

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02464025 CRIPPLE CREEK NEAR SAMANTHA, AL (Lat 33 29 34 Long 087 33 46)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
NOV												
04...	0900	.40	86	6.1	8.0	--	--	--	--	--	--	--
JUN												
02...	1300	.86	58	6.8	24.5	6.9	22	8	3.4	3.2	3.0	.3

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)
NOV											
04...	--	28	0	13	--	--	--	--	--	--	--
JUN											
02...	1.1	17	0	10	1.8	.04	.00	.04	70	190	110

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
NOV				
04...	0900	.40	4	.00

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JUN				
02...	1300	.86	5	.01

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02464035 CRIPPLE CREEK EAST OF SAMANTHA, AL (Lat 33 28 25 Long 087 34 06)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG										
25...	1430	.50	68	6.3	25.0	50	6.9	20	9	3.8
SEP										
21...	0830	3.3	--	6.6	19.0	25	8.5	--	--	--
27...	1345	--	32	--	19.0	--	--	--	--	--

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
AUG										
25...	2.6	4.8	.5	1.9	14	0	11	6.0	.0	--
SEP										
21...	--	--	--	--	15	0	7.5	3.7	.1	8.7
27...	--	--	--	--	--	--	--	--	--	--

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ALUMINUM (AL) (UG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)
AUG										
25...	--	--	.01	.03	400	40	1000	810	160	140
SEP										
21...	42	.37	--	--	--	--	--	240	--	--
27...	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL ARSENIC (AS) (UG/L)	TOTAL BORON (B) (UG/L)	DISSOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)
AUG												
25...	0	50	30	0	0	<10	0	0	0	5	3	0

DATE	DISSOLVED LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	SUSPENDED LITHIUM (LI) (UG/L)	DISSOLVED LITHIUM (LI) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	TOTAL STRONTIUM (SR) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
AUG												
25...	0	0	0	0	.0	0	0	50	50	10	0	5.2

DATE	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	DISSOLVED RA-226 (RADON METHOD) (PC/L)	DISSOLVED URANIUM (U) (UG/L)
AUG					
25...	<.8	4.7	3.8	.25	.07

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
AUG				
25...	1430	.50	16	.02
SEP				
21...	0830	3.3	19	.17

02464035 CRIPPLE CREEK EAST OF SAMANTHA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE	SEP 27,77
TIME	1345
TOTAL COUNT	165
DIVERSITY: PHYLUM	0.1
.CLASS	0.5
..ORDER	2.6
...FAMILY	3.1
....GENUS	3.3
....GENUS-INSECTA	3.0

ORGANISM	COUNT
ANNELIDA	
.OLIGOCHAETA	
..UNKNOWN ORDER	
...UNKNOWN FAMILY	
....UNKNOWN GENUS	2
ARTHROPODA (ARTHROPODS)	
.ARACHNOIDEA	
..HYDRACARINA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS	5
.CRUSTACEA	
..ISOPODA	
...ASELLIDAE	
....LIRCEUS	5
.INSECTA	
..COLEOPTERA	
...DRYOPIDAE	
....HELICHUS	26
...ELMIDAE	
....DUBIRAPHIA	1
....MACRONYCHUS	1
....OPTIOSERVUS	2
....OULIMNIUS	2
....STENELMIS	1
..DIPTERA	
...CERATOPOGONIDAE	
....ATRICHOPOGON	1
...CHIRONOMIDAE	
....CONCHAPELOPIA	1
....POLYPEDILUM	2
....TRICHOCLADIUS	1
...TIPULIDAE	
....TIPULA	4
..EPHEMEROPTERA	
...HEPTAGENIIDAE	
....STENONEMA	15
...SIPHLONURIDAE	
....ISONYCHIA	41
..MEGALOPTERANS	
...CORYDALIDAE	
....CORYDALUS	4
....NIGRONIA	7
..ODONATA	
...COENAGRIONIDAE	
....UNKNOWN GENUS	1
..PLECOPTERA	
...PERLIDAE	
....ACRONEURIA	4
..TRICHOPTERA	
...HYDROPSYCHIDAE	
....CHEUMATOPSYCHE	37
...PHILOPOTAMIDAE	
....CHIMARRA	1
NEMATODA (NEMATODES)	
.UNKNOWN CLASS	
..UNKNOWN ORDER	
...UNKNOWN FAMILY	
....UNKNOWN GENUS	1

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02464143 TRIBUTARY TO TURKEY CREEK NEAR SAMANTHA, AL (Lat 33 23 55 Long 087 29 11)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
NOV								
04...	1620	.41	9	6.5	10.0	--	--	--
MAY								
31...	1030	.84	10	6.2	18.0	9.2	2	0

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
NOV									
04...	--	--	--	--	--	4	0	1.4	--
MAY									
31...	.4	.3	.8	.2	.2	6	0	1.0	1.4

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)
NOV								
04...	--	--	--	--	--	--	--	--
MAY								
31...	4	.01	.01	.00	.01	50	80	0

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
NOV				
04...	1620	.41	1	.00

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAY				
31...	1120	--	4	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02464145 TURKEY CREEK NEAR TUSCALOOSA, AL (Lat 33 24 32 Long 087 30 45)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	DISSOLVED OXYGEN (MG/L)
NOV							
03...	0920	3.5	13	6.4	13.0	--	--
DEC							
07...	1430	4.8	17	6.2	8.0	20	--
JAN							
07...	1250	12	22	5.9	7.0	--	--
09...	2040	106	18	6.8	10.0	--	--
14...	1125	60	19	6.4	8.0	--	--
FEB							
14...	1500	6.0	20	7.3	10.5	--	--
MAR							
12...	1115	390	22	6.8	12.5	--	--
12...	1245	225	21	6.9	12.5	--	--
12...	1621	135	31	6.9	14.5	--	--
APR							
11...	1330	11	17	6.5	18.0	--	--
12...	0900	11	17	6.5	13.0	--	--
MAY							
10...	1210	3.7	--	--	17.0	--	--
16...	1415	3.1	12	6.3	17.5	--	--
JUN							
22...	1000	9.0	12	6.0	22.5	--	--
22...	1430	2.4	--	6.0	25.0	55	7.3
JUL							
20...	0830	--	12	5.3	21.0	--	8.2
20...	0900	2.7	12	5.3	21.0	--	8.2
AUG							
18...	0900	2.3	15	6.5	22.0	--	8.4
SEP							
19...	1245	4.0	14	6.3	21.0	35	9.0
27...	1245	--	18	--	19.0	--	--

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFIDE (S) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	BENTHIC INVERTEBRATES WET WEIGHT (G/SQ METER)	CHLOR-A PERIPHYTON CHROMOGRAPHIC FLUOROM (MG/M2)	CHLOR-B PERIPHYTON CHROMOGRAPHIC FLUOROM (MG/M2)
NOV							
03...	6	0	--	1.2	--	--	--
DEC							
07...	5	0	.0	1.3	--	--	--
JAN							
07...	6	0	--	3.6	--	--	--
09...	4	0	--	3.7	--	--	--
14...	5	0	--	3.1	--	--	--
FEB							
14...	6	0	--	1.7	--	--	--
MAR							
12...	10	0	--	3.8	--	--	--
12...	10	0	--	3.8	--	--	--
12...	13	0	--	3.6	--	--	--
APR							
11...	--	--	--	--	.0	--	--
12...	--	--	--	--	--	--	--
MAY							
10...	--	--	--	--	.0	--	--
16...	--	--	--	1.3	--	--	--
JUN							
22...	--	--	--	--	--	2.14	.682
22...	3	0	.0	2.0	--	--	--
JUL							
20...	4	0	--	--	1.3	18.2	12.9
20...	4	0	--	2.6	--	--	--
AUG							
18...	6	0	--	2.1	1.6	--	--
SEP							
19...	4	0	.0	1.7	--	--	--
27...	--	--	--	--	.5	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02464145 TURKEY CREEK NEAR TUSCALOOSA, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
DEC										
07...	5	1	1.0	.6	1.0	.2	.5	1.6	--	15
JAN										
09...	5	2	.7	.9	--	--	--	--	--	--
14...	5	1	.9	.7	--	--	--	--	--	--
FEB										
14...	--	--	--	--	--	--	--	--	--	--
MAR										
12...	6	0	1.9	.4	1.7	.3	.8	--	--	--
12...	7	0	2.0	.4	1.9	.3	.8	--	--	--
12...	8	0	2.2	.5	2.0	.3	.8	--	--	--
JUN										
22...	2	0	.1	.4	1.2	.4	.5	1.7	16	15
SEP										
19...	5	2	.7	.7	1.0	.2	.6	1.6	--	12

DATE	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL ALUMINUM (AL) (UG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	TOTAL ALUMINUM IN BOTTOM MATERIAL (UG/G)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)
DEC										
07...	.31	--	30	--	--	160	--	--	20	--
JAN										
09...	--	--	--	--	--	30	--	--	--	--
14...	--	--	--	--	940	60	--	--	--	--
FEB										
14...	--	90	20	380	600	50	1500	--	--	--
MAR										
12...	--	1200	10	--	4400	30	--	170	40	--
12...	--	2300	20	--	3500	20	--	100	30	--
12...	--	900	10	--	1700	20	--	60	20	--
JUN										
22...	.10	40	20	10	600	40	500	10	10	70
SEP										
19...	.13	--	0	--	--	60	--	--	--	--

DATE	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)
DEC							
07...	.01	.00	.01	.09	.10	.00	.00
JUN							
22...	.04	.00	.04	.32	.36	.01	.00
SEP							
19...	.01	.00	.01	.15	.16	.01	.00

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
DEC											
07...	1	0	0	0	0	0	.1	0	40	10	8.4
FEB											
14...	1	0	0	0	0	0	.0	0	10	0	2.2
JUN											
22...	1	0	0	0	3	18	.0	0	0	10	5.6

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02464145 TURKEY CREEK NEAR TUSCALOOSA, AL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G)	TOTAL CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)
FEB											
14...	--	--	0	0	--	<10	<10	--	<10	0	--
JUN											
22...	1	0	0	0	0	<10	<10	<10	<10	0	0

DATE	TOTAL COBALT IN BOTTOM MA-TERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	TOTAL IRON IN BOTTOM MA-TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	SUS-PENDED MAN-GANESE (MN) (UG/L)	TOTAL MANGA-NESE IN BOTTOM MA-TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)
FEB											
14...	<10	0	--	<10	1500	0	--	<10	--	--	.0
JUN											
22...	<10	3	0	<10	500	--	0	<10	0	70	.0

DATE	SUS-PENDED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	TOTAL SELE-NIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL STRON-TIUM (SR) (UG/L)	SUS-PENDED STRON-TIUM (SR) (UG/L)	TOTAL STRON-TIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)
FEB											
14...	--	.0	1	--	0	20	--	<10	10	10	<10
JUN											
22...	.0	.0	0	0	0	30	30	<10	10	0	<10

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
NOV				
03...	0920	3.5	1	.01
DEC				
07...	1350	4.8	1	.01
JAN				
07...	1245	13	5	.18
07...	1250	12	5	.16
09...	2025	106	141	40
09...	2040	106	141	40
14...	1125	60	28	4.5
MAR				
12...	1115	390	476	501
12...	1245	225	360	219
12...	1620	135	215	78
12...	1621	135	215	78
25...	1000	12	0	.00
APR				
04...	2015	410	481	532
04...	2125	340	245	225

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
APR				
04...	2130	340	245	225
04...	2140	275	234	174
04...	2235	275	234	174
05...	0015	220	236	140
11...	1030	11	5	.15
11...	1410	3.7	16	.16
MAY				
16...	1410	3.7	16	.16
JUN				
22...	1430	2.4	7	.05
AUG				
18...	0900	2.3	11	.07
SEP				
19...	1230	4.0	4	.04

02464145 TURKEY CREEK NEAR TUSCALOOSA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE	JAN 7,77	APR 11,77	MAY 10,77	JUN 22,77
TIME	2400	1330	1210	1000
TOTAL COUNT	43	80	80	137
DIVERSITY: PHYLUM	0.2	0.0	0.0	0.0
.CLASS	0.2	0.0	0.1	0.1
..ORDER	2.4	2.1	2.2	2.4
...FAMILY	3.4	3.6	3.6	3.5
....GENUS	3.6	3.8	4.1	3.9
....GENUS-INSECTA	3.5	3.8	4.1	3.8
ORGANISM	COUNT	COUNT	COUNT	COUNT
ANNELIDA				
.OLIGOCHAETA				
..UNKNOWN ORDER				
...UNKNOWN FAMILY				
....UNKNOWN GENUS	--	--	--	--
ARTHROPODA (ARTHROPODS)				
.ARACHNOIDEA				
..HYDRACARINA				
...UNKNOWN FAMILY				
....UNKNOWN GENUS	--	--	--	1
.CRUSTACEA				
..ISOPODA				
...ASELLIDAE				
....LIRCEUS	--	--	1	--
.INSECTA				
..COLEOPTERA				
...DRYOPIDAE				
....HELICHUS	--	1	--	--
...ELMIDAE				
....OPTIOSERVUS	2	--	--	2
....OULIMNIUS	--	--	--	--
....STENELMIS	--	--	--	1
....UNKNOWN GENUS	--	--	--	--
...PSEPHENIDAE				
....PSEPHENUS	--	--	--	--
...PTILODACTYLIDAE				
....ANCHYTARSUS	3	2	1	5
..DIPTERA				
...CERATOPOGONIDAE				
....ATRICHOPOGON	--	--	--	--
...CHIRONOMIDAE				
....CARDIOCLADIUS	--	--	--	2
....CONCHAPELOPIA	--	--	--	--
....CRICOTOPUS	--	--	2	--
....EUKIEFFERIELLA	3	--	--	11
....MICROTENDIPES	--	--	--	--
....ORTHOCLADIUS	--	1	--	--
....PARAMETRIOCNEMUS	--	--	--	--
....PLECOPTERACOLUTHUS	--	--	--	--
....POLYPEDILUM	--	--	--	--
....RHEOTANYTARSUS	--	--	--	--
....SMITTIA	--	--	--	--
....STENOCHIRONOMUS	--	--	--	--
....TANYTARSUS	--	--	--	--
....THIENEMANNIELLA	--	--	--	--
....ZAVRELIA	--	--	1	--
...EMPIDIDAE				
....UNKNOWN GENUS	--	--	--	1
...RHAGIONIDAE				
....ATHERIX	--	--	--	4
...SIMULIIDAE				
....SIMULIUM	--	11	6	9
...TABANIDAE				
....TABANUS	--	--	1	1
...TIPULIDAE				
....ANTOCHA	--	--	--	--
....DICRANOTA	--	4	3	--
....HEXATOMA	--	--	--	1

02464145 TURKEY CREEK NEAR TUSCALOOSA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE	JAN 7,77	APR 11,77	MAY 10,77	JUN 22,77
TIME	2400	1330	1210	1000
ORGANISM	COUNT	COUNT	COUNT	COUNT
....PSEUDOLIMNOPHILA	--	--	1	1
....TIPULA	1	4	6	--
..EPHEMEROPTERA				
...BAETIDAE				
....BAETIS	--	--	2	16
....CENTROPTILUM	--	--	--	--
....PSEUDOCLOEON	--	4	8	6
...EPHEMERELLIDAE				
....EPHEMERELLA	4	17	--	--
...HEPTAGENIIDAE				
....EPEORUS	--	7	5	1
....STENONEMA	7	1	6	34
...LEPTOPHLEBIIDAE				
....HABROPHLEBIODES	--	--	10	3
....PARALEPTOPHLEBIA	--	2	--	--
...SIPHLONURIDAE				
....ISONYCHIA	--	--	--	--
..HEMIPTERA				
...VELIIDAE				
....RHAGOVELIA	--	--	--	1
..MEGALOPTERANS				
...CORYDALIDAE				
....CORYDALUS	--	--	4	6
....NIGRONIA	1	--	--	1
...SIALIDAE				
....SIALIS	--	--	--	--
..ODONATA				
...GOMPHIDAE				
....LANTHUS	--	2	--	4
..PLECOPTERA				
...CAPNIIDAE				
....ALLOCAPNIA	--	6	2	3
...NEMOURIDAE				
....NEMOURA	--	2	--	--
...PELTOPERLIDAE				
....PELTOPERLA	1	2	2	7
...PERLIDAE				
....ACRONEURIA	10	7	7	1
....NEOPERLA	1	--	2	1
...TAENIOPTERYGIDAE				
....TAENIOPTERYX	2	--	--	--
...UNKNOWN FAMILY				
....UNKNOWN GENUS	1	--	--	--
..TRICHOPTERA				
...HYDROPSYCHIDAE				
....CHEUMATOPSYCHE	2	3	6	13
....DIPLECTRONA	--	1	--	--
....HYDROPSYCHE	1	--	--	1
...LEPIDOSTOMATIDAE				
....LEPIDOSTOMA	--	1	--	--
...PHILOPOTAMIDAE				
....CHIMARRA	2	--	--	--
...RHYACOPHILIDAE				
....RHYACOPHILA	1	2	2	--
..DIPTERA				
...CHIRONOMIDAE				
....PSECTROCLADIUS	--	--	1	--
..TRICHOPTERA				
...PHILOPOTAMIDAE				
....DOLOPHILODES	--	--	1	--

02464145 TURKEY CREEK NEAR TUSCALOOSA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE	JAN 7,77	APR 11,77	MAY 10,77	JUN 22,77
TIME	2400	1330	1210	1000
ORGANISM	COUNT	COUNT	COUNT	COUNT
NEMATODA (NEMATODES)				
.UNKNOWN CLASS				
..UNKNOWN ORDER				
...UNKNOWN FAMILY				
....UNKNOWN GENUS	1	--	--	--
PLATYHELMINTHES (FLATWORMS)				
.TURBELLARIA				
..TRICLADIDA				
...UNKNOWN FAMILY				
....UNKNOWN GENUS	--	--	--	--

DATE	JUL 20,77	AUG 18,77	SEP 27,77
TIME	0830	0900	1245
TOTAL COUNT	346	91	167
DIVERSITY: PHYLUM	0.1	0.1	0.1
.CLASS	0.2	0.2	0.2
..ORDER	2.1	2.2	2.4
...FAMILY	3.0	3.0	3.2
....GENUS	3.4	3.4	3.8
....GENUS-INSECTA	3.3	3.3	3.7
ORGANISM	COUNT	COUNT	COUNT
ANNELIDA			
.OLIGOCHAETA			
..UNKNOWN ORDER			
...UNKNOWN FAMILY			
....UNKNOWN GENUS	2	1	1

02464145 TURKEY CREEK NEAR TUSCALOOSA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE	JUL 20,77	AUG 18,77	SEP 27,77
TIME	0830	0900	1245
ORGANISM	COUNT	COUNT	COUNT
ARTHROPODA (ARTHROPODS)			
.ARACHNOIDEA			
..HYDRACARINA			
...UNKNOWN FAMILY			
....UNKNOWN GENUS	4	2	3
.CRUSTACEA			
..ISOPODA			
...ASELLIDAE			
....LIRCEUS	--	--	--
.INSECTA			
..COLEOPTERA			
...DRYOPIDAE			
....HELICHUS	1	1	--
...ELMIDAE			
....OPTIOSERVUS	3	1	9
....OULIMNIUS	2	--	--
....STENELMIS	--	--	1
....UNKNOWN GENUS	1	--	--
...PSEPHENIDAE			
....PSEPHENUS	1	--	--
...PTILODACTYLIDAE			
....ANCHYTARSUS	5	4	8
..DIPTERA			
...CERATOPOGONIDAE			
....ATRICHOPOGON	--	--	1
...CHIRONOMIDAE			
....CARDIOCLADIUS	--	--	--
....CONCHAPELOPIA	1	1	2
....CRICOTOPUS	1	1	--
....FUKIEFFERIELLA	1	--	--
....MICROTENDIPES	--	1	--
....ORTHOCLADIUS	--	--	--
....PARAMETRIOCNEMUS	--	1	8
....PLECOPTERACOLUTHUS	2	--	--
....POLYPEDILUM	2	1	23
....RHEOTANYTARSUS	4	--	1
....SMITTIA	--	--	1
....STENOCHIRONOMUS	1	--	1
....TANYTARSUS	2	--	--
....THIENEMANNIELLA	1	--	--
....ZAVRELIA	--	--	1
...EMPIDIDAE			
....UNKNOWN GENUS	--	--	--
...RHAGIONIDAE			
....ATHERIX	1	--	1
...SIMULIIDAE			
....SIMULIUM	10	--	7
...TABANIDAE			
....TABANUS	--	--	--
...TIPULIDAE			
....ANTOCHA	1	--	--
....DICRANOTA	2	1	--
....HEXATOMA	--	--	2

02464145 TURKEY CREEK NEAR TUSCALOOSA, AL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

BENTHIC INVERTEBRATE
(Sampling Method - Surber, 210 micron net)

DATE	JUL 20,77	AUG 18,77	SEP 27,77
TIME	0830	0900	1245
ORGANISM	COUNT	COUNT	COUNT
....PSEUDOLIMNOPHILA	--	--	--
....TIPULA	--	--	--
..EPHEMEROPTERA			
...BAETIDAE			
....BAETIS	23	5	1
....CENTROPTILUM	1	--	--
....PSEUDOCLOEON	1	--	--
...EPHEMERELLIDAE			
....EPHEMERELLA	--	--	--
...HEPTAGENIIDAE			
....EPEORUS	10	6	--
....STENONEMA	122	22	29
...LEPTOPHLEBIIDAE			
....HABROPHLEBIODES	9	1	--
....PARALEPTOPHLEBIA	--	--	--
...SIPHLONURIDAE			
....ISONYCHIA	2	--	1
..HEMIPTERA			
...VELIIDAE			
....RHAGOVELIA	1	--	--
..MEGALOPTERANS			
...CORYDALIDAE			
....CORYDALUS	3	5	1
....NIGRONIA	1	--	--
...SIALIDAE			
....SIALIS	--	1	--
..ODONATA			
...GOMPHIDAE			
....LANTHUS	--	--	--
..PLECOPTERA			
...CAPNIIDAE			
....ALLOCAPNIA	4	2	4
...NEMOURIDAE			
....NEMOURA	--	--	--
...PELTOPERLIDAE			
....PELTOPERLA	4	3	5
...PERLIDAE			
....ACRONEURIA	60	27	33
....NEOPERLA	1	--	4
...TAENIOPTERYGIDAE			
....TAENIOPTERYX	--	--	--
...UNKNOWN FAMILY			
....UNKNOWN GENUS	--	--	--
..TRICHOPTERA			
...HYDROPSYCHIDAE			
....CHEUMATOPSYCHE	44	2	12
....DIPLECTRONA	--	--	--
....HYDROPSYCHE	6	1	--
...LEPIDOSTOMATIDAE			
....LEPIDOSTOMA	--	--	--
...PHILOPOTAMIDAE			
....CHIMARRA	3	1	7
...RHYACOPHILIDAE			
....RHYACOPHILA	--	--	--
..DIPTERA			
...CHIRONOMIDAE			
....PSECTROCLADIUS	--	--	--
..TRICHOPTERA			
...PHILOPOTAMIDAE			
....DOLOPHILODES	--	--	--
NEMATODA (NEMATODES)			
.UNKNOWN CLASS			
..UNKNOWN ORDER			
...UNKNOWN FAMILY			
....UNKNOWN GENUS	1	--	--
PLATYHELMINTHES (FLATWORMS)			
.TURBELLARIA			
..TRICLADIDA			
...UNKNOWN FAMILY			
....UNKNOWN GENUS	2	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02464313 BARBEE CREEK NEAR NEW LEXINGTON, AL (Lat 33 31 47 Long 087 39 30)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
JUN 01...	0940	1.2	29	6.9	20.0	8.3	8	1

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
JUN 01...	1.3	1.1	2.1	.3	1.0	8	0	.9	3.2

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)
JUN 01...	19	.06	.73	.00	.73	40	250	310

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JUN 01...	0940	1.2	42	.14

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

02464317 BARBEE CREEK NEAR SAMANTHA, AL (Lat 33 30 27 Long 087 38 48)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
JUN 01...	1230	1.3	51	6.9	23.5	8.7	17	8

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
JUN 01...	3.0	2.4	2.4	.3	1.0	12	0	7.6	3.4

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)
JUN 01...	33	.12	.53	.01	.54	60	180	70

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JUN 01...	1230	1.3	21	.07

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

03575480 TENNESSEE RIVER AT HUNTSVILLE PUMP STATION NEAR HUNTSVILLE, AL (Lat 34 34 06 Long 086 33 16)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ND denotes constituent not detected)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
NOV										
16...	22800	178	7.5	9.0	10.4	63	5	18	4.4	6.5
FEB										
14...	29700	171	7.9	6.0	14.1	71	13	21	4.4	5.6
MAR										
09...	53000	164	7.1	10.5	7.1	73	10	23	3.8	4.2
JUN										
29...	37600	165	7.6	28.0	6.6	58	--	16	4.3	5.1
JUL										
12...	44500	163	6.8	29.0	--	60	3	16	4.8	5.4

DATE	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
NOV									
16...	.4	1.3	69	0	7.2	8.6	.1	3.2	85
FEB									
14...	.3	1.2	71	0	12	2.2	.0	10	95
MAR									
09...	.2	1.1	77	0	10	4.8	.0	2.8	89
JUN									
29...	.3	1.4	--	--	12	3.8	.0	2.6	--
JUL									
12...	.3	1.4	70	0	13	8.2	.1	2.4	86

DATE	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED BARIUM (BA) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	DISSOLVED COBALT (CO) (UG/L)
NOV									
16...	5230	.29	1.3	<1	--	<1	ND	--	1
FEB									
14...	7620	.77	3.4	3	--	ND	ND	--	<1
MAR									
09...	12700	.34	1.5	<1	ND	<1	ND	ND	--
JUN									
29...	--	.22	1.0	ND	--	<1	ND	--	<1
JUL									
12...	10300	.20	.90	1	ND	<1	<1	ND	--

DATE	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	DISSOLVED SILVER (AG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
NOV									
16...	--	0	1	28	<.2	--	--	70	10
FEB									
14...	--	30	ND	12	<.2	--	--	60	<5
MAR									
09...	2	40	<1	11	ND	<1	ND	80	10
JUN									
29...	--	10	ND	5	<.2	--	--	70	20
JUL									
12...	2	150	3	6	<.2	<1	<1	90	30

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
02361075 - KELLY SPRING NEAR DOTHAN, ALA. D 2 (LAT 31 16 34 LONG 085 27 43.01)												
JUN , 1977 13...	10	144	6.0	23.5	45	12	15	1.7	4.8	.3	2.0	40
02399205 - CONGO SPRING NEAR BLANCHE, AL G 9 (LAT 34 17 48 LONG 085 39 49.01)												
JUN , 1977 30...	3.3	302	7.6	17.0	140	9	51	3.4	1.7	.1	.5	160
02401650 - WEBSTER CHAPEL SPRING NEAR WEBSTER CHAPEL G 57 (LAT 33 53 57 LONG 085 50 29.02)												
JUN , 1977 30...	3.9	205	7.9	17.0	100	2	26	8.5	.7	.0	.4	120
02410000 - PATERSON CREEK NEAR CENTRAL, ALA. (LAT 32 40 54 LONG 086 07 40)												
NOV , 1976 08...	2.1	57	7.4	9.0	--	--	--	--	--	--	--	26
02455970 - PENNY SPRING NEAR PINSON AL (LAT 33 41 56 LONG 086 40 09.01)												
JUN , 1977 28...	6.0	251	7.7	19.0	130	7	27	14	1.2	.0	.6	150

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (NO3) (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVE CAD-MIUM (CD) (UG/L
02361075 - KELLY SPRING NEAR DOTHAN, ALA. D 2 (LAT 31 16 34 LONG 085 27 43.01)												
JUN , 1977												
13...	0	10	5.0	.0	4.5	69	--	1.3	5.8	<1	--	
02399205 - CONGO SPRING NEAR BLANCHE, AL G 9 (LAT 34 17 48 LONG 085 39 49.01)												
JUN , 1977												
30...	0	4.4	1.6	.0	4.5	149	--	.70	3.1	ND	--	<
02401650 - WEBSTER CHAPEL SPRING NEAR WEBSTER CHAPEL G 57 (LAT 33 53 57 LONG 085 50 29.02)												
JUN , 1977												
30...	0	1.4	2.0	.0	6.1	106	--	.36	1.6	<1	--	<
02410000 - PATERSON CREEK NEAR CENTRAL, ALA. (LAT 32 40 54 LONG 086 07 40)												
NOV , 1976												
08...	0	--	2.8	--	--	--	--	--	--	--	--	-
02455970 - PENNY SPRING NEAR PINSON AL (LAT 33 41 56 LONG 086 40 09.01)												
JUN , 1977												
28...	0	3.2	1.8	.0	5.2	132	--	1.1	4.9	ND	--	<

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
02361075 - KELLY SPRING NEAR DOTHAN, ALA. D 2 (LAT 31 16 34 LONG 085 27 43.01)												
JUN , 1977 13...	<1	--	1	--	190	2	94	.2	--	--	70	190
02399205 - CONGO SPRING NEAR BLANCHE, AL G 9 (LAT 34 17 48 LONG 085 39 49.01)												
JUN , 1977 30...	ND	--	<1	--	ND	<1	ND	<.2	--	--	150	10
02401650 - WEBSTER CHAPEL SPRING NEAR WEBSTER CHAPEL G 57 (LAT 33 53 57 LONG 085 50 29.02)												
JUN , 1977 30...	ND	--	<1	--	ND	<1	ND	<.2	--	--	40	<5
02410000 - PATERSON CREEK NEAR CENTRAL, ALA. (LAT 32 40 54 LONG 086 07 40)												
NOV , 1976 08...	--	--	--	--	--	--	--	--	--	--	--	--
02455970 - PENNY SPRING NEAR PINSON AL (LAT 33 41 56 LONG 086 40 09.01)												
JUN , 1977 28...	ND	--	<1	--	20	2	4	.3	--	--	50	40

TENNESSEE RIVER BASIN

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
03572200 - FLAT ROCK CREEK NEAR IDER AL (LAT 33 00 00 LONG 086 00 00.05)												
JUN , 1977												
27...	45	268	7.8	26.5	120	0	45	2.5	3.1	.1	1.6	150
03574560 - PAINT ROCK RIVER AT BUTLER MILL NEAR WOODVILLE (LAT 34 34 47 LONG 086 18 05)												
NOV , 1976												
08...	153	281	7.5	13.0	130	16	44	4.5	1.3	.0	.6	140
MAR , 1977												
16...	273	182	6.5	14.5	91	11	31	3.2	2.3	.1	.1	98
JUN												
28...	54	262	6.7	29.0	130	7	43	5.3	1.3	.0	.8	150
03574600 - PAINT ROCK RIVER NEAR NEW HOPE, AL (LAT 34 30 45 LONG 086 20 25)												
JUN , 1977												
28...	32	263	7.2	30.0	130	0	42	5.2	3.5	.1	.8	160
03574709 - FLINT RIVER ABOVE STEWART BRANCH NEAR FISK, AL (LAT 34 59 20 LONG 086 31 32)												
NOV , 1976												
02...	51	71	7.0	11.5	28	10	8.6	1.5	1.8	.1	1.6	22
APR , 1977												
15...	71	--	6.6	18.5	24	5	7.8	1.1	1.4	.1	1.0	23
JUL												
13...	8.1	82	6.8	26.0	47	13	--	--	.8	.1	1.0	42
03574787 - WATERCRESS SPRING NEAR NEW MARKET, AL B 53 (LAT 34 55 38 LONG 086 23 39.01)												
NOV , 1976												
09...	10	210	6.9	16.0	100	10	30	6.3	1.2	.1	.3	110
MAR , 1977												
14...	22	248	6.8	16.0	120	14	39	5.6	.6	.0	.2	130
JUL												
08...	15	181	6.3	15.0	89	26	--	--	.9	.0	.3	77
03574795 - HESTER CREEK NEAR PLEVNA, AL (LAT 34 58 40 LONG 086 27 06)												
DEC , 1976												
09...	9.9	49	6.7	5.0	22	8	6.2	1.5	1.6	.1	1.2	17
MAR , 1977												
15...	66	124	6.6	14.5	61	14	21	2.0	1.0	.1	1.2	58
JUL												
14...	3.0	45	7.5	27.0	19	3	5.4	1.3	.6	.1	.7	20
03574802 - MOUNTAIN FORK NEAR NEW MARKET, AL (LAT 34 52 32 LONG 086 28 27)												
NOV , 1976												
02...	38	229	7.0	11.0	100	2	34	4.8	1.4	.1	1.0	120
MAR , 1977												
25...	132	172	6.4	15.5	85	5	27	4.2	1.5	.1	.5	98
JUL												
14...	41	178	7.7	24.0	88	13	--	--	.8	.0	.5	91

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED BARIUM (BA) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)
03572200 - FLAT ROCK CREEK NEAR IDER AL (LAT 33 00 00 LONG 086 00 00.05)												
JUN , 1977												
27...	0	5.8	5.8	.0	4.7	143	17.4	.10	.45	<1	--	<1
03574560 - PAINT ROCK RIVER AT BUTLER MILL NEAR WOODVILLE (LAT 34 34 47 LONG 086 18 05)												
NOV , 1976												
08...	0	8.0	3.6	.1	3.3	151	62.4	3.8	17	ND	--	<1
MAR , 1977												
16...	0	9.4	1.4	.0	5.9	104	76.7	.56	2.5	<1	ND	<1
JUN												
28...	0	8.0	1.6	.0	7.6	144	21.0	.54	2.4	1	30	<1
03574600 - PAINT ROCK RIVER NEAR NEW HOPE, AL (LAT 34 30 45 LONG 086 20 25)												
JUN , 1977												
28...	0	8.8	1.8	.0	8.1	149	12.9	--	--	1	20	<1
03574709 - FLINT RIVER ABOVE STEWART BRANCH NEAR FISK, AL (LAT 34 59 20 LONG 086 31 32)												
NOV , 1976												
02...	0	4.2	4.4	.0	6.4	42	5.78	.59	2.6	1	--	<1
APR , 1977												
15...	0	3.0	2.6	.0	4.6	39	7.48	1.2	5.4	1	180	<1
JUL												
13...	0	3.8	1.2	.1	4.4	--	--	.43	1.9	--	--	--
03574787 - WATERCRESS SPRING NEAR NEW MARKET, AL B 53 (LAT 34 55 38 LONG 086 23 39.01)												
NOV , 1976												
09...	0	1.0	1.4	.1	9.3	120	3.24	3.6	16	ND	--	<1
MAR , 1977												
14...	0	5.8	2.0	.0	8.2	129	7.66	.88	3.9	<1	ND	<1
JUL												
08...	0	3.8	2.0	.1	7.3	--	--	1.1	4.8	--	--	--
03574795 - HESTER CREEK NEAR PLEVNA, AL (LAT 34 58 40 LONG 086 27 06)												
DEC , 1976												
09...	0	6.6	4.0	.1	5.5	38	1.02	.68	3.0	2	--	<1
MAR , 1977												
15...	0	4.6	3.4	.0	5.7	75	13.4	1.6	7.2	1	ND	<1
JUL												
14...	0	2.6	1.6	.0	5.1	30	.24	.50	2.2	--	--	--
03574802 - MOUNTAIN FORK NEAR NEW MARKET, AL (LAT 34 52 32 LONG 086 28 27)												
NOV , 1976												
02...	0	6.2	4.0	.1	6.3	125	12.8	1.8	8.0	1	--	<1
MAR , 1977												
25...	0	4.2	2.8	.0	5.7	100	35.6	1.1	4.9	<1	320	1
JUL												
14...	0	3.4	1.6	.0	5.7	--	--	1.0	4.6	--	--	--

TENNESSEE RIVER BASIN

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
03572200 - FLAT ROCK CREEK NEAR IDER AL (LAT 33 00 00 LONG 086 00 00.05)												
JUN , 1977												
27...	ND	--	<1	--	20	ND	40	<.2	--	--	130	<5
03574560 - PAINT ROCK RIVER AT BUTLER MILL NEAR WOODVILLE (LAT 34 34 47 LONG 086 18 05)												
NOV , 1976												
08...	ND	--	1	--	50	3	53	ND	--	--	190	10
MAR , 1977												
16...	ND	ND	--	1	80	ND	20	.2	<1	ND	110	20
JUN												
28...	ND	ND	--	2	50	ND	29	<.2	<1	ND	200	10
03574600 - PAINT ROCK RIVER NEAR NEW HOPE, AL (LAT 34 30 45 LONG 086 20 25)												
JUN , 1977												
28...	<1	ND	--	2	1800	ND	27	<.2	<1	ND	200	20
03574709 - FLINT RIVER ABOVE STEWART BRANCH NEAR FISK, AL (LAT 34 59 20 LONG 086 31 32)												
NOV , 1976												
02...	<1	--	1	--	80	2	32	<.2	--	--	30	50
APR , 1977												
15...	ND	ND	--	1	30	ND	32	--	<1	ND	50	30
JUL												
13...	--	--	--	--	--	--	--	--	--	--	--	--
03574787 - WATERCRESS SPRING NEAR NEW MARKET, AL B 53 (LAT 34 55 38 LONG 086 23 39.01)												
NOV , 1976												
09...	<1	--	1	--	80	3	8	ND	--	--	80	100
MAR , 1977												
14...	ND	ND	--	1	40	1	5	<.2	<1	ND	60	10
JUL												
08...	--	--	--	--	--	--	--	--	--	--	--	--
03574795 - HESTER CREEK NEAR PLEVNA, AL (LAT 34 58 40 LONG 086 27 06)												
DEC , 1976												
09...	ND	--	ND	--	140	2	35	<.2	--	--	60	140
MAR , 1977												
15...	ND	ND	--	1	70	1	36	<.2	<1	ND	40	10
JUL												
14...	--	--	--	--	290	--	--	--	--	--	--	--
03574802 - MOUNTAIN FORK NEAR NEW MARKET, AL (LAT 34 52 32 LONG 086 28 27)												
NOV , 1976												
02...	1	--	1	--	10	1	57	<.2	--	--	110	50
MAR , 1977												
25...	ND	ND	--	<1	50	ND	32	<.2	<1	<1	110	20
JUL												
14...	--	--	--	--	--	--	--	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
03574835 - BRIER F FLINT R AB BEAVERDAM C NR MERIDIANVILLE (LAT 34 51 12 LONG 086 32 35)												
NOV , 1976												
03...	34	57	7.2	12.5	24	9	7.6	1.2	1.9	.2	1.6	18
APR , 1977												
13...	41	56	6.7	16.5	27	8	5.8	3.0	1.5	.1	.7	23
JUL												
14...	7.0	92	6.9	25.0	34	20	--	--	1.5	.1	.7	40
03575015 - BOILING SPRING NEAR MAYSVILLE, AL M 2 (LAT 34 48 18 LONG 086 28 20.01)												
NOV , 1976												
12...	7.5	142	7.0	14.5	66	12	19	4.5	1.1	.1	.3	66
APR , 1977												
14...	E5.6	131	6.6	16.0	65	6	20	3.7	1.4	.1	.3	72
JUN												
30...	9.4	132	6.3	16.5	63	4	18	4.3	.8	.0	.3	72
03575024 - ACUFF SPRING NEAR CHASE, AL M 38 (LAT 34 46 48 LONG 086 29 30.01)												
JUL , 1977												
01...	1.4	218	6.9	16.0	100	10	32	4.7	1.7	.1	.6	110
03575120 - FLINT RIVER WEST OF GURLEY, AL (LAT 34 41 47 LONG 086 25 20)												
NOV , 1976												
04...	369	132	7.0	11.5	63	14	20	3.0	1.4	.1	1.2	60
MAR , 1977												
08...	1620	--	6.8	10.5	51	11	17	2.1	1.2	.1	1.1	49
JUL												
05...	184	141	8.7	25.0	72	7	--	--	1.1	.1	.6	63
03575400 - FLINT RIVER NEAR OWENS CROSSROADS, AL (LAT 34 32 10 LONG 086 29 28)												
MAR , 1977												
08...	2590	142	6.6	16.0	67	11	23	2.3	1.2	.1	1.0	69
JUL												
05...	82	159	6.5	26.0	79	8	--	--	1.3	.1	.7	86
03575760 - KELLY SPRING NEAR HARVEST, ALA. O 3 (LAT 34 48 54 LONG 086 42 44.01)												
MAR , 1977												
09...	15	257	6.8	15.5	120	14	42	4.3	1.3	.1	.5	130
JUN												
30...	4.5	177	6.4	18.0	82	0	26	4.1	1.0	.0	.4	100
03575950 - HUNTSVILLE SPRING BR(JOHNSON RD) NR HUNTSVILLE (LAT 34 41 24 LONG 086 35 47)												
MAY , 1977												
20...	45	305	7.2	20.0	--	--	--	--	--	--	--	--
JUL												
07...	13	237	7.1	32.0	110	4	--	--	3.0	.1	.9	130
03575955 - HVILLE SP B(AB SEW. P.) NR HUNTSVILLE,ALA. (LAT 34 40 40 LONG 086 36 03)												
NOV , 1976												
10...	23	245	7.0	19.0	120	14	42	4.8	3.5	.1	1.0	130
MAR , 1977												
02...	69	296	7.6	12.0	150	19	53	4.1	2.5	.1	.7	160
JUL												
07...	15	217	7.2	32.0	100	5	--	--	3.2	.1	.7	116

TENNESSEE RIVER BASIN

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (NO3) (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)
03574835 - BRIER F FLINT R AB BEAVERDAM C NR MERIDIANVILLE (LAT 34 51 12 LONG 086 32 35)												
NOV , 1976												
03...	0	3.6	5.8	.0	6.0	39	3.58	.54	2.4	ND	--	<1
APR , 1977												
13...	0	1.0	3.4	.0	5.2	36	3.99	.77	3.4	1	260	<1
JUL												
14...	0	1.4	2.4	.1	4.8	--	--	.68	3.0	--	--	--
03575015 - BOILING SPRING NEAR MAYSVILLE, AL M 2 (LAT 34 48 18 LONG 086 28 20.01)												
NOV , 1976												
12...	0	8.2	2.0	.1	8.1	86	1.74	2.2	9.9	2	--	<1
APR , 1977												
14...	0	.8	1.6	.0	8.3	80	--	1.8	8.1	1	120	1
JUN												
30...	0	2.2	1.0	.0	10	79	2.00	1.6	7.0	<1	ND	<1
03575024 - ACUFF SPRING NEAR CHASE, AL M 38 (LAT 34 46 48 LONG 086 29 30.01)												
JUL , 1977												
01...	0	7.0	3.4	.0	5.9	120	.45	2.3	10	ND	--	<1
03575120 - FLINT RIVER WEST OF GURLEY, AL (LAT 34 41 47 LONG 086 25 20)												
NOV , 1976												
04...	0	3.8	6.0	.0	5.6	74	73.7	.77	3.4	ND	--	<1
MAR , 1977												
08...	0	8.0	3.0	.0	5.9	77	337	3.4	15	<1	ND	<1
JUL												
05...	8	2.8	2.0	.0	5.0	--	--	1.2	5.2	--	--	--
03575400 - FLINT RIVER NEAR OWENS CROSSROADS, AL (LAT 34 32 10 LONG 086 29 28)												
MAR , 1977												
08...	0	6.8	3.0	.0	5.0	80	559	.88	3.9	1	ND	<1
JUL												
05...	0	4.6	2.2	.0	5.6	--	--	--	--	--	--	--
03575760 - KELLY SPRING NEAR HARVEST, ALA. 0 3 (LAT 34 48 54 LONG 086 42 44.01)												
MAR , 1977												
09...	0	3.6	2.8	.0	8.2	135	--	1.8	8.0	<1	ND	<1
JUN												
30...	0	.0	1.6	.0	7.0	96	--	1.5	6.5	<1	20	<1
03575950 - HUNTSVILLE SPRING BR(JOHNSON RD) NR HUNTSVILLE (LAT 34 41 24 LONG 086 35 47)												
MAY , 1977												
20...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
07...	0	7.0	4.8	.1	5.3	--	--	.25	1.1	--	--	--
03575955 - HVILLE SP B(AB SEW. P.) NR HUNTSVILLE,ALA. (LAT 34 40 40 LONG 086 36 03)												
NOV , 1976												
10...	0	4.0	7.6	.1	3.4	134	8.32	.90	4.0	2	--	<1
MAR , 1977												
02...	0	9.4	3.8	.0	5.1	164	30.6	1.4	6.3	1	20	<1
JUL												
07...	0	5.8	4.8	.1	5.3	--	--	.04	.20	--	--	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
03574835 - BRIER F FLINT R AB BEAVERDAM C NR MERIDIANVILLE (LAT 34 51 12 LONG 086 32 35)												
NOV , 1976												
03...	<1	--	1	--	90	4	79	<.2	--	--	60	60
APR , 1977												
13...	ND	ND	--	4	210	ND	69	--	<1	<1	40	30
JUL												
14...	--	--	--	--	--	--	--	--	--	--	--	--
03575015 - BOILING SPRING NEAR MAYSVILLE, AL M 2 (LAT 34 48 18 LONG 086 28 20.01)												
NOV , 1976												
12...	1	--	ND	--	100	<1	1	<.2	--	--	70	30
APR , 1977												
14...	ND	ND	--	<1	30	ND	1	--	ND	<1	30	40
JUN												
30...	ND	ND	--	2	10	6	ND	2.0	<1	<1	50	80
03575024 - ACUFF SPRING NEAR CHASE, AL M 38 (LAT 34 46 48 LONG 086 29 30.01)												
JUL , 1977												
01...	ND	--	ND	--	ND	ND	ND	.2	--	--	160	20
03575120 - FLINT RIVER WEST OF GURLEY, AL (LAT 34 41 47 LONG 086 25 20)												
NOV , 1976												
04...	<1	--	1	--	60	1	42	<.2	--	--	70	60
MAR , 1977												
08...	ND	ND	--	1	130	1	28	ND	<1	ND	60	20
JUL												
05...	--	--	--	--	--	--	--	--	--	--	--	--
03575400 - FLINT RIVER NEAR OWENS CROSSROADS, AL (LAT 34 32 10 LONG 086 29 28)												
MAR , 1977												
08...	ND	ND	--	1	20	1	19	<.2	<1	ND	80	10
JUL												
05...	--	--	--	--	--	--	--	--	--	--	--	--
03575760 - KELLY SPRING NEAR HARVEST, ALA. 0 3 (LAT 34 48 54 LONG 086 42 44.01)												
MAR , 1977												
09...	ND	ND	--	1	20	1	3	ND	<1	ND	60	10
JUN												
30...	ND	ND	--	2	60	<1	ND	ND	<1	<1	50	10
03575950 - HUNTSVILLE SPRING BR(JOHNSON RD) NR HUNTSVILLE (LAT 34 41 24 LONG 086 35 47)												
MAY , 1977												
20...	3	--	--	--	--	--	--	--	--	--	--	--
JUL												
07...	--	--	--	--	--	--	--	--	--	--	--	--
03575955 - HVILLE SP B(AB SEW. P.) NR HUNTSVILLE,ALA. (LAT 34 40 40 LONG 086 36 03)												
NOV , 1976												
10...	2	--	<1	--	20	<1	38	<.2	--	--	120	40
MAR , 1977												
02...	50	4	<1	2	100	1	58	<.2	<1	ND	120	10
JUL												
07...	--	--	--	--	--	--	--	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3 (MG/L
03575963 - BYRD SPRING AT HUNTSVILLE, AL Q 169 (LAT 34 39 52 LONG 086 34 56.01)												
DEC , 1976												
15...	--	440	6.6	16.5	220	15	--	--	--	--	--	25
APR , 1977												
11...	--	402	6.4	16.5	210	63	--	--	--	--	--	18
03576000 - H'VILLE SP BR(PATTON RD) NR HUNTSVILLE,ALA (LAT 34 37 32 LONG 086 37 46)												
NOV , 1976												
12...	72	361	6.7	9.0	140	17	47	4.6	22	.8	3.7	15
MAR , 1977												
16...	848	232	6.6	18.0	110	20	38	3.0	4.4	.2	1.3	11
JUL												
12...	50	412	6.9	29.0	120	0	39	5.3	31	1.2	5.1	15
03576020 - HUNTSVILLE SP BR(DODD RD)NR HUNTSVILLE,ALA (LAT 34 37 08 LONG 086 39 54)												
NOV , 1976												
10...	65	382	6.9	16.5	140	26	49	4.0	22	.8	3.0	14
MAR , 1977												
16...	863	212	6.7	16.0	91	9	33	2.0	4.3	.2	1.4	10
JUL												
12...	179	336	6.6	29.0	110	13	38	4.1	21	.9	3.6	12
03576110 - BARREN FORK CREEK NEAR TRIANA, AL (LAT 34 36 52 LONG 086 44 06)												
NOV , 1976												
03...	10	154	7.0	9.5	66	12	21	3.3	3.9	.2	1.5	6
MAR , 1977												
07...	156	126	6.7	10.5	56	12	18	2.7	3.6	.2	.9	5
JUL												
13...	51	184	6.7	32.0	84	6	--	--	4.2	.2	1.1	9

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED BARIUM (BA) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)
03575963 - BYRD SPRING AT HUNTSVILLE, AL Q 169 (LAT 34 39 52 LONG 086 34 56.01)												
DEC , 1976												
15...	0	--	7.2	--	--	--	--	--	--	--	--	--
APR , 1977												
11...	0	--	5.2	--	--	--	--	--	--	--	--	--
03576000 - H'VILLE SP BR(PATTON RD) NR HUNTSVILLE,ALA (LAT 34 37 32 LONG 086 37 46)												
NOV , 1976												
12...	0	19	22	.4	8.3	205	39.9	.93	4.1	2	--	<1
MAR , 1977												
16...	0	7.4	5.2	.1	7.5	123	282	.43	1.9	1	ND	<1
JUL												
12...	0	21	28	.3	8.5	213	28.8	.27	1.2	2	ND	<1
03576020 - HUNTSVILLE SP BR(DODD RD)NR HUNTSVILLE,ALA (LAT 34 37 08 LONG 086 39 54)												
NOV , 1976												
10...	0	16	34	.4	7.3	209	36.7	.90	4.0	1	--	<1
MAR , 1977												
16...	0	9.4	5.8	.1	5.4	113	263	.36	1.6	1	ND	<1
JUL												
12...	0	20	20	.3	5.8	182	88.0	2.3	10	4	10	<1
03576110 - BARREN FORK CREEK NEAR TRIANA, AL (LAT 34 36 52 LONG 086 44 06)												
NOV , 1976												
03...	0	4.0	9.0	.0	5.2	84	2.27	.81	3.6	ND	--	<1
MAR , 1977												
07...	0	7.6	4.4	.0	5.0	73	30.7	.79	3.5	<1	20	<1
JUL												
13...	--	4.2	5.9	.1	4.9	--	--	.23	1.0	--	--	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
03575963 - BYRD SPRING AT HUNTSVILLE, AL Q 169 (LAT 34 39 52 LONG 086 34 56.01)												
DEC , 1976												
15...	--	--	--	--	--	--	--	--	--	--	--	--
APR , 1977												
11...	--	--	--	--	--	--	--	--	--	--	--	--
03576000 - H'VILLE SP BR(PATTON RD) NR HUNTSVILLE,ALA (LAT 34 37 32 LONG 086 37 46)												
NOV , 1976												
12...	ND	--	<1	--	0	<1	310	<.2	--	--	120	30
MAR , 1977												
16...	ND	ND	--	1	120	1	160	.2	<1	ND	90	30
JUL												
12...	11	ND	--	3	300	ND	220	<.2	<1	<1	90	10
03576020 - HUNTSVILLE SP BR(DODD RD)NR HUNTSVILLE,ALA (LAT 34 37 08 LONG 086 39 54)												
NOV , 1976												
10...	1	--	1	--	0	3	250	.2	--	--	130	20
MAR , 1977												
16...	ND	ND	--	1	100	1	130	<.2	<1	ND	120	30
JUL												
12...	<1	ND	--	4	230	1	220	<.2	<1	<1	100	10
03576110 - BARREN FORK CREEK NEAR TRIANA, AL (LAT 34 36 52 LONG 086 44 06)												
NOV , 1976												
03...	<1	--	1	--	100	1	330	<.2	--	--	50	60
MAR , 1977												
07...	ND	ND	ND	2	230	1	74	.4	ND	ND	70	30
JUL												
13...	--	--	--	--	--	--	--	--	--	--	--	--

APALACHICOLA RIVER BASIN

02342500 - UCHEE CREEK NEAR FORT MITCHELL, ALA (LAT 32 19 00 LONG 085 00 54)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT , 1976			
01...	112	49	20.0
NOV			
09...	153	48	7.0
DEC			
22...	563	40	5.0
FEB , 1977			
01...	450	43	4.0
MAR , 1977			
14...	1400	45	17.0
APR			
25...	456	47	20.0
JUN			
06...	47	72	28.0
JUL			
18...	27	75	28.0

02342933 - SOUTH FORK COWIKEE CREEK NEAR BATESVILLE, ALA (LAT 32 01 03 LONG 085 17 45)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT , 1976			
01...	9.1	86	18.5
NOV			
09...	16	75	9.0
DEC			
21...	197	95	8.0
FEB , 1977			
01...	115	82	3.0
MAR			
14...	314	66	15.0
APR , 1977			
25...	35	92	18.0
JUN			
06...	5.3	120	26.0
JUL			
18...	2.0	150	26.5
18...	2.0	150	26.5

02343300 - ABBIE CREEK NEAR HALEBURG, ALA. (LAT 31 28 24 LONG 085 09 45)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT , 1976			
01...	130	50	20.0
NOV			
10...	116	43	8.0
DEC			
22...	264	34	5.0
FEB , 1977			
02...	276	36	4.0
MAR , 1977			
15...	614	37	14.0
APR			
26...	208	44	16.0
JUN			
07...	50	48	23.0
JUL			
19...	70	59	23.0

CHOCTAWHATCHEE RIVER BASIN

02364570 - PANTHER CREEK NEAR HACODA, ALA. (LAT 31 07 15 LONG 086 11 13)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT , 1976			
01...	16	39	20.0
NOV			
11...	11	40	10.5
DEC			
20...	54	35	13.0
FEB , 1977			
03...	39	29	5.5
MAR			
16...	70	29	17.0
APR , 1977			
27...	20	35	15.0
JUN			
09...	3.8	52	19.5
JUL			
20...	13	53	24.0
AUG			
30...	20	--	26.0

ESCAMBIA RIVER BASIN

02371200 - INDIAN CREEK NEAR TROY, ALA. (LAT 31 48 50 LONG 086 07 15)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT , 1976			
04...	3.9	52	18.5
NOV			
11...	5.5	51	12.5
DEC			
20...	20	43	12.5
FEB , 1977			
03...	16	43	4.5
MAR , 1977			
16...	20	48	14.5
APR			
27...	9.7	48	15.0
JUN			
09...	2.1	53	17.0
JUL			
20...	4.3	60	23.0

02372250 - PATSALIGA CREEK NEAR BRANTLEY, ALA. (LAT 31 35 46 LONG 086 24 20)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT , 1976			
04...	134	87	19.0
NOV			
10...	173	80	14.0
DEC			
14...	1170	85	13.0
JAN , 1977			
25...	677	75	7.0
MAR			
07...	5170	--	14.0
APR , 1977			
18...	397	90	15.0
MAY			
31...	233	85	26.0
JUL			
12...	240	--	27.0
AUG			
22...	218	94	26.5

02373800 - SEPULGA RIVER AT BROOKLYN, AL (LAT 31 15 42 LONG 086 45 48.01)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT , 1976			
01...	251	88	21.0
NOV			
11...	281	90	15.0
DEC			
15...	3090	100	12.0
JAN , 1977			
25...	1730	56	7.5
MAR			
08...	8020	60	13.0
APR , 1977			
20...	578	70	14.0
JUN			
01...	340	80	24.0
JUL			
13...	256	80	26.0
AUG			
23...	1630	64	26.5

02374660 - MURDER CREEK AT KIRKLAND, ALA. (LAT 31 11 30 LONG 087 01 35)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT , 1976			
01...	193	82	20.5
NOV			
11...	177	80	15.0
DEC			
15...	835	80	12.0
JAN , 1977			
25...	694	69	9.0
MAR			
08...	1120	70	14.0
APR , 1977			
18...	376	94	19.0
JUN			
02...	218	100	24.0
JUL			
13...	292	66	26.0
AUG			
23...	273	77	26.5

MOBILE RIVER BASIN

02398300 - CHATTOOGA R AB GAYLESVILLE ALA (LAT 34 17 25 LONG 085 30 33)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
JUL , 1977			
27...	202	418	24.0

02400100 - TERRAPIN C AT ELLISVILLE ALA (LAT 34 04 LONG 085 37

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
JUL , 1977			
27...	108	190	25.0

MOBILE RIVER BASIN--Continued

02400500 - COOSA RIVER AT GADSDEN, ALA. (LAT 34 00 37 LONG 085 59 52)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
APR , 1977			
12...	51800	65	19.0

02401450 - GULF CREEK NEAR STEELE, AL (LAT 33 55 05 LONG 086 15 08)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
FEB , 1977			
17...	7.4	76	3.0
MAR			
30...	132	62	16.0
SEP , 1977			
07...	38	65	23.5
09...	18	68	22.0

02410000 - PATERSON CREEK NEAR CENTRAL, ALA. (LAT 32 40 54 LONG 086 07 40)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT , 1976			
06...	2.4	47	18.5
NOV			
08...	--	--	9.0
DEC			
17...	6.7	40	11.0
JAN , 1977			
20...	7.1	38	4.0
MAR			
02...	8.8	240	12.5
APR , 1977			
13...	7.8	42	15.5
MAY			
25...	3.7	50	21.0
JUL			
07...	1.5	54	27.0
AUG			
15...	1.1	57	25.5

02413300 - LITTLE TALLAPOOSA RIVER NR NEWELL, AL (LAT 33 26 00 LONG 085 24 00)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT , 1976			
04...	129	69	18.0
NOV			
16...	531	55	5.5
DEC			
17...	570	66	5.5
JAN , 1977			
25...	966	47	3.0
MAR			
10...	771	35	9.0
APR , 1977			
21...	611	37	18.5
JUN			
06...	226	59	24.5
JUL			
18...	89	49	27.0
AUG			
25...	95	78	26.0

02419975 - THREE MILE BRANCH(BILTMORE AV)AT MONTGOMERY,ALA. (LAT 32 23 35 LONG 086 15 25)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT , 1976			
04...	1.4	110	22.0
NOV			
09...	1.2	--	9.0
DEC			
14...	1.0	--	8.0
APR , 1977			
25...	1.1	--	19.0
MAY			
31...	1.0	190	28.0
JUL			
18...	1.1	150	29.0

02420987 - HANNON SLOUGH NEAR MONTGOMERY, ALA. (LAT 32 20 11 LONG 086 16 10)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT , 1976			
06...	.60	560	21.0
FEB , 1977			
08...	2.0	--	10.0
APR , 1977			
25...	.07	--	19.0
JUL			
18...	.06	--	31.0

02424940 - OAKMULGEE CREEK NEAR SUMMERFIELD, ALA. (LAT 32 32 01 LONG 087 05 24)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT , 1976			
04...	66	25	20.0
NOV			
08...	77	29	6.5
DEC			
13...	804	20	6.0
FEB , 1977			
07...	240	30	6.0
MAR , 1977			
09...	826	27	10.0
APR			
26...	318	28	16.0
JUN			
01...	76	30	24.0
JUL			
21...	52	29	25.0

MOBILE RIVER BASIN--Continued

02425200 - BIG SWAMP CREEK NEAR ORRVILLE, AL (LAT 32 13 17 LONG 087 09 48)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT , 1976			
05...	1.8	68	20.5
08...	3.1	68	17.5
NOV			
08...	2.4	71	8.0
DEC			
13...	104	68	7.0
FEB , 1977			
07...	36	70	9.0
MAR , 1977			
09...	137	70	10.5
APR			
26...	16	89	16.0
JUN			
01...	2.2	72	26.0
JUL			
20...	1.8	98	28.0

02455000 - LOCUST FORK NEAR CLEVELAND, ALA. (LAT 34 02 00 LONG 086 34 00)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
FEB , 1977			
17...	180	112	5.0
APR			
21...	195	118	19.5
MAY , 1977			
17...	59	153	20.0
JUL			
25...	10	--	28.0

02457000 - FIVEMILE CREEK AT KETONA, ALA. (LAT 33 36 05 LONG 086 45 20)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
NOV , 1976			
03...	11	170	10.5
DEC			
07...	28	172	9.8
JAN , 1977			
26...	33	150	9.2
MAR			
02...	47	175	10.0
30...	125	150	10.5
MAY , 1977			
11...	18	160	15.5
JUN			
14...	15	150	22.5
JUL			
19...	10	175	24.0
AUG			
30...	8.8	--	24.0

02458450 - VILLAGE CREEK (AVENUE 'W') AT ENSLEY, AL (LAT 33 31 03 LONG 086 52 45.01)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
NOV , 1976			
02...	26	300	15.5
DEC			
06...	43	270	9.0
JAN , 1977			
17...	81	--	8.2
FEB			
28...	128	250	8.0
MAY , 1977			
10...	32	275	20.0
JUN			
13...	36	260	30.5
JUL			
18...	30	310	29.0
SEP			
01...	26	--	28.5

02461500 - VALLEY CREEK NEAR BESSEMER, AL (LAT 33 25 09 LONG 086 58 58.01)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
NOV , 1976			
02...	72	490	16.0
DEC			
06...	68	470	11.0
JAN , 1977			
17...	135	475	10.0
MAY			
10...	87	500	23.0
JUN , 1977			
13...		450	30.0
JUL			
18...	107	510	32.0
SEP			
01...	54	--	30.0

02471065 - MONTLIMAR CREEK (HWY 90) AT MOBILE, ALA. (LAT 30 39 03 LONG 088 07 28)

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT , 1976			
04...	11	68	25.0
NOV			
16...	8.2	70	15.0
JAN , 1977			
27...	34	69	11.5

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
PASCAGOULA RIVER BASIN			
02479431 - POND CREEK NEAR DEER PARK AL (LAT 31 09 39 LONG 088 21 43.01)			
NOV , 1976			
23...	13	28	7.0
DEC			
08...	104	30	8.0
JAN , 1977			
26...	41	23	6.0
MAR			
09...	63	22	9.0
APR			
19...	10	21	18.5
JUN			
02...	6.5	25	22.0
JUL			
13...	.71	28	24.0
AUG			
24...	5.5	--	27.0
TENNESSEE RIVER BASIN			
03575830 - INDIAN CREEK NEAR MADISON, ALA. (LAT 34 41 50 LONG 086 42 00)			
OCT , 1976			
04...	7.6	--	16.0
NOV			
22...	9.1	--	7.0
JAN , 1977			
12...	79	--	4.5
FEB			
14...	25	--	9.0
MAY			
11...	36	190	15.0
03592000 - BEAR CREEK NEAR RED BAY, ALA. (LAT 34 26 38 LONG 088 06 56)			
FEB , 1977			
16...	30	--	6.0
APR			
28...	182	61	19.0
AUG			
23...	37	71	27.0

CHEMICAL ANALYSIS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

GREENE COUNTY

324930088063501. Local number, W-3 (USCE GS 1A).
LOCATION.--Lat 32°49'30", long 88°06'35", Hydrologic Unit 03160106, in SW¼ sec. 4, T. 21 N., R. 1 W., at east side pf dirt road, 2.2 mi (3.5 km) south-southwest of New Mt. Hebron, 0.85 mi (1.37 km) northeast of Tombigbee River, and 2.8 mi (4.5 km) east of Gainesville.
Owner: U.S. Corps of Engineers.
AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 4 in (10 cm), depth 277 ft (84 m), screened 257 to 277 ft (78 to 84 m).

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL DEPTH OF WELL (FT)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
DEC						
15...	277	3400	7.8	13.0	400	0
MAR						
31...	277	3380	7.9	18.0	410	0
MAY						
24...	277	3400	7.8	21.0	440	0

JEFFERSON COUNTY

333216086421301. Local number, W-7.
LOCATION.--Lat 33°32'15", long 86°42'13", Hydrologic Unit 03150202, in SW¼ sec. 24, T. 17 S., R. 2 W., Irondale.
AQUIFER.--Bangor Limestone of Late Mississippian age.
WELL CHARACTERISTICS.--Drilled public supply artesian well, diameter 8 in (20 cm), depth 312 ft (95 m), slotted 125 to 200 ft (38 to 61 m), open hole below.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL DEPTH OF WELL (FT)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
NOV										
19...	312	390	7.8	17.0	190	18	71	3.1	3.9	.1
DEC										
10...	312	405	7.0	17.0	210	46	77	3.1	4.0	.1
MAR										
02...	312	400	7.7	--	190	0	73	2.8	3.9	.1
MAY										
11...	312	415	7.9	18.0	190	26	70	2.6	4.5	.1
JUL										
19...	312	374	7.9	18.0	190	26	70	2.9	4.3	.1

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)
NOV										
19...	.5	210	0	14	9.0	.1	9.1	223	2.1	9.1
DEC										
10...	4.2	200	0	13	8.4	.1	9.2	226	1.8	8.0
MAR										
02...	4.0	240	0	15	8.2	.3	9.8	241	1.3	5.6
MAY										
11...	.6	200	0	11	9.2	.1	7.8	211	1.4	6.2
JUL										
19...	.4	200	0	3.2	8.1	.0	8.9	204	1.6	7.1

333216086421301. Local number, W-7--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
NOV										
19...	1	<1	1	1	30	1	6	ND	190	ND
DEC										
10...	ND	<1	ND	ND	10	2	2	ND	140	10
MAR										
02...	1	<1	1	<1	20	1	--	<.2	160	20
MAY										
11...	1	<1	1	1	30	10	ND	<.2	130	20
JUL										
19...	1	<1	ND	<1	ND	2	4	<.2	160	10

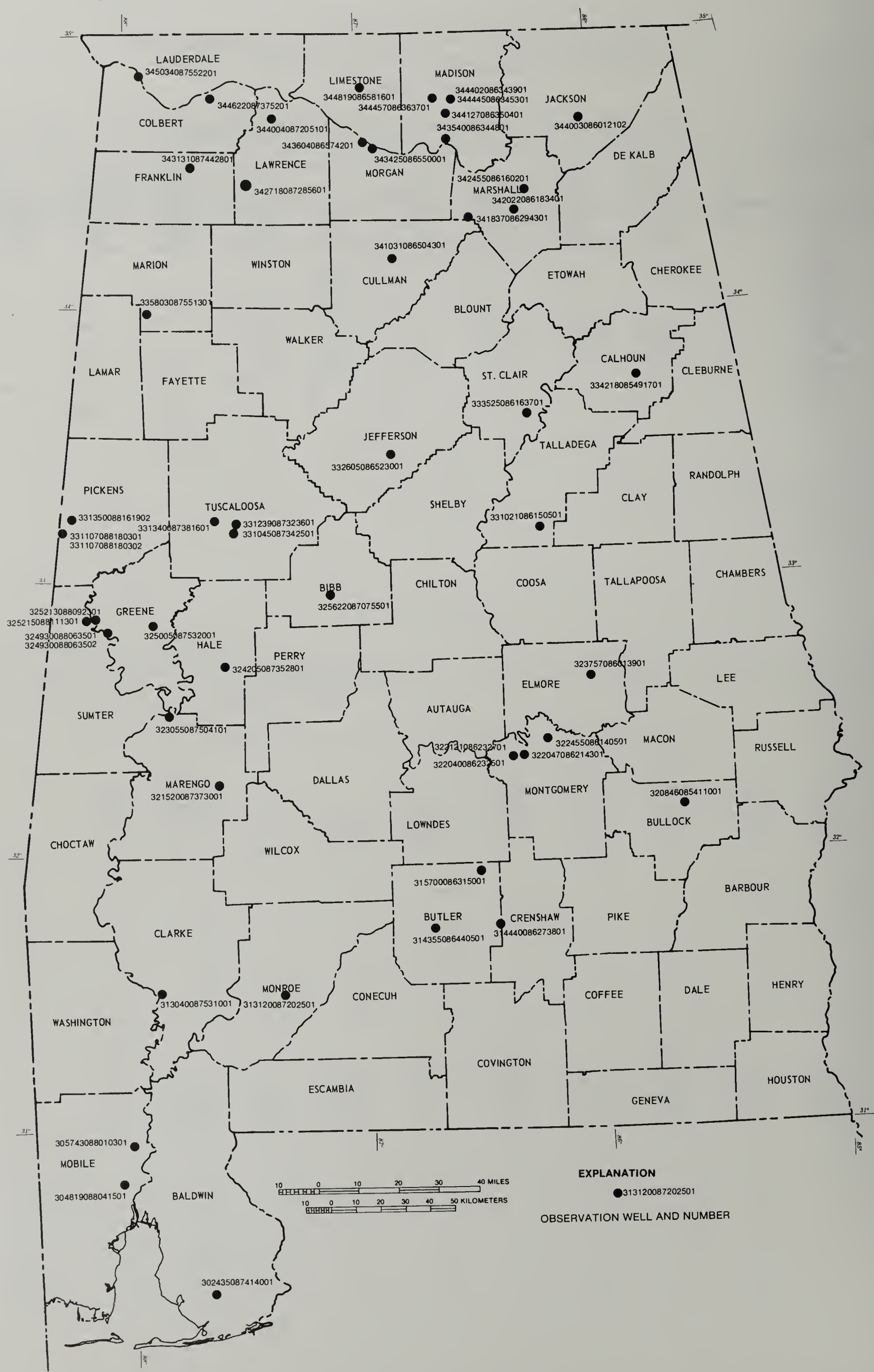

Figure 7.--Map of Alabama showing location of observation wells.

BALDWIN COUNTY

302435087414001. Local number, Bal-1.
LOCATION.--Lat 30°24'35", long 87°41'40", Hydrologic Unit 03160205, in NE¼ sec. 29, T. 7 S., R. 4 E., at city waterworks lot, Foley.
Owner: Riviera Utilities.
AQUIFER.--Sand and gravel of Miocene age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10 in (25 cm), depth 134 ft (41 m), slotted 94 to 134 ft (29 to 41 m).
DATUM.--Altitude of land-surface datum is 76 ft (23 m). Measuring point: Top of casing, 0.70 ft (0.21 m) above land-surface datum.
REMARKS.--Water levels affected by pumping of nearby municipal wells. Measurements made by Riviera Utilities.
PERIOD OF RECORD.--September 1949 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 15.0 ft (4.6 m) below land-surface datum, Oct. 13, 1959; lowest, 31.2 ft (9.5 m) below land-surface datum, June 22, 1956.
EXTREMES FOR CURRENT YEAR.--Highest water level, 20.20 ft (6.20 m) below land-surface datum, Feb. 21; lowest, 22.60 ft (6.90 m) below land-surface datum, Aug. 19.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	21.30	21.50	21.40	20.80	20.40	20.50	20.50	20.50	21.20	21.90	22.50	22.40
10	21.30	21.40	21.30	20.80	20.40	20.50	20.30	20.60	21.30	22.00	22.50	22.40
15	21.30	21.50	21.10	20.60	20.40	20.60	---	20.70	21.40	22.10	22.60	22.40
20	21.40	21.50	21.10	20.60	20.30	20.60	20.30	---	21.50	22.20	22.60	22.20
25	21.30	21.50	---	20.50	20.30	20.60	20.30	21.00	21.60	22.30	22.60	22.20
EOM	---	21.60	20.90	20.50	20.50	20.70	20.40	21.10	21.80	22.40	22.50	---
MAX	21.40	21.60	21.40	20.80	20.50	20.70	20.50	21.10	21.80	22.40	22.60	22.40

BIBB COUNTY

325622087075501. Local number, Bib-1.
LOCATION.--Lat 32°56'22", long 87°07'55", Hydrologic Unit 03150202, in SW¼ sec. 25, T. 23 N., R. 9 E., at junction of U.S. Highway 82 and State Highway 219, Centreville.
Owner: Centreville Gin and Cotton Co.
AQUIFER.--Copper Ridge Dolomite of Late Cambrian age and Chepultepec Dolomite of Early Ordovician age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in (20 cm), depth 404 ft (123 m), cased to 80 ft (24 m), open hole below.
DATUM.--Altitude of land-surface datum is 230.93 ft (70.39 m). Measuring point: Top of casing, 0.43 ft (0.13 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--April 1948 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 18.0 ft (5.5 m) below land-surface datum, Apr. 2, 1951; lowest, 32.3 ft (9.8 m) below land-surface datum, several times October and November 1954.
EXTREMES FOR CURRENT YEAR.--Highest water level, 21.05 ft (6.42 m) below land-surface datum, Apr. 6; lowest, 29.82 ft (9.09 m) below land-surface datum, Oct. 22, 23.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	29.42	29.64	29.49	28.38	28.10	26.01	21.85	---	---	29.05	29.17	29.60
10	29.53	29.66	29.52	26.60	28.34	25.49	---	26.76	---	29.17	29.44	28.60
15	29.61	29.48	28.52	26.36	28.27	24.46	---	27.11	---	29.23	29.58	28.95
20	29.79	29.51	28.91	27.40	28.45	26.15	---	27.33	---	29.29	29.60	28.73
25	29.75	29.68	28.83	27.54	26.02	24.70	---	27.37	---	29.22	29.64	29.14
EOM	29.52	29.31	28.44	27.73	25.59	21.35	---	27.68	28.78	28.86	29.61	29.23
MAX	29.82	29.75	29.58	28.58	28.49	26.42	23.07	27.68	28.78	29.34	29.73	29.69

BULLOCK COUNTY

320846085411001. Local number, Bul-1.
LOCATION.--Lat 32°08'46", long 85°41'10", Hydrologic Unit 03140301, in SW¼ sec. 31, T. 14 N., R. 24 E., at Alabama Highway Department Camp, Union Springs, on U.S. Highway 82 and 1.5 mi (2.4 km) east of Union Springs.
Owner: State of Alabama.
AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (15 cm), depth 882 ft (269 m), casing depth and finish unknown.
DATUM.--Altitude of land-surface datum is 542 ft (165 m). Measuring point: Top of casing, at land-surface datum.
REMARKS.--Recorder removed Nov. 14, 1977.
PERIOD OF RECORD.--May 1960 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 322.60 ft (98.33 m) below land-surface datum Mar. 23, 1961; lowest, 398.34 ft (121.41 m) below land-surface datum, Sept. 19, 20, 21, 1975.
EXTREMES FOR CURRENT YEAR.--Highest water level, 369.49 ft (112.62 m) below land-surface datum, Jan. 13; lowest, 396.83 ft (120.95 m) below land-surface datum, Nov. 26.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	388.35	390.42	---	373.00	---	---	---	---	---	---	---	---
10	388.35	391.99	---	370.51	---	---	---	---	---	---	---	---
15	---	390.38	386.89	---	---	---	---	---	---	---	---	---
20	389.07	---	---	---	---	---	---	---	---	---	---	---
25	389.09	396.81	---	---	---	---	---	---	---	---	---	---
EOM	390.41	---	378.95	---	---	---	---	---	---	---	---	---
MAX	390.41	396.83	389.57	376.98	---	---	---	---	---	---	---	---

BUTLER COUNTY

314355086440501. Local number, But-3.
LOCATION.--Lat 31°43'55", long 86°44'05", Hydrologic Unit 03140303, in SW¼ sec. 23, T. 9 N., R. 13 E., at junction county roads 25 and 28 and 9 mi (14 km) southwest of Greenville.
Owner: U.S. Geological Survey.
AQUIFER.--Nanafalia Formation of Paleocene age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (15 cm), depth 213 ft (65 m), screened 203 to 213 ft (62 to 65 m).
DATUM.--Altitude of land-surface datum is 370 ft (113 m). Measuring point: Top of floor in recorder house, 2.96 ft (0.90 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--February 1970 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 69.75 ft (21.26 m) below land-surface datum May 14, 1976; lowest, 74.26 ft (22.63 m) below land-surface datum, Oct. 24-26, 1972.
EXTREMES FOR CURRENT YEAR.--Highest water level, 70.67 ft (21.54 m) below land-surface datum, Mar. 7; lowest, 72.99 ft (22.25 m) below land-surface datum, July 8.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	72.41	72.59	72.43	---	72.26	72.11	72.01	72.14	72.55	72.94	72.65	72.72
10	72.41	72.60	72.45	---	72.29	72.15	72.06	72.19	72.63	72.96	72.68	72.71
15	72.46	72.54	72.35	---	72.29	72.11	72.07	72.28	72.72	72.96	72.73	72.70
20	72.54	72.52	---	---	72.28	72.12	72.11	72.36	72.76	72.87	72.68	72.51
25	72.55	72.58	---	72.28	72.19	72.06	72.01	72.35	72.78	72.88	72.71	72.56
EOM	72.51	72.38	---	72.28	72.21	71.95	72.10	72.45	72.88	72.78	72.72	72.60
MAX	72.61	72.65	72.45	72.30	72.30	72.22	72.11	72.45	72.88	72.99	72.74	72.73

BUTLER COUNTY

314440086273801. Local number, But-2.
LOCATION.--Lat 31°44'40", long 86°27'38", Hydrologic Unit 03140303, in NW¼ sec. 21, T. 9 N., R. 16 E., at county road, 0.5 mi (0.8 km) south of State Highway 10, and 11 mi (18 km) southeast of Greenville. Owner: L. L. Rayburn.
AQUIFER.--Clayton Formation of Paleocene age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in (20 cm), depth 202 ft (62 m), casing depth and finish unknown.
DATUM.--Altitude of land-surface datum is 345 ft (105 m). Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--September 1964 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 37.1 ft (11.3 m) below land-surface datum, June 8, 1976; lowest, 61.9 ft (18.9 m) below land-surface datum, Feb. 10, 15, 1969.
EXTREMES FOR CURRENT YEAR.--Highest water level, 41.80 ft (12.70 m) below land-surface datum, Apr. 5; lowest, 51.10 ft (15.60 m) below land-surface datum, Sept. 30.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	45.90	47.60	---	---	46.40	46.40	42.00	43.40	45.60	47.50	48.80	50.10
10	46.20	---	---	---	46.50	45.70	41.90	43.70	46.00	47.80	48.90	50.30
15	46.40	---	---	---	46.50	45.10	41.90	44.10	46.30	48.10	49.10	50.50
20	46.70	---	---	---	46.60	44.70	---	44.50	46.60	48.30	49.30	50.70
25	46.90	---	---	---	46.70	44.20	---	44.80	46.90	48.60	49.60	50.90
EOM	47.20	---	---	46.40	46.80	43.20	43.00	45.30	47.20	48.80	49.80	51.10
MAX	47.20	---	---	---	46.80	46.40	43.00	45.30	47.20	48.80	49.80	51.10

BUTLER COUNTY

315700086315001. Local number, But-4.
LOCATION.--Lat 31°57'00", long 86°31'50", Hydrologic Unit 03140303, in NW¼ sec. 11, T. 11 N., R. 15 E., at County Road 75, 0.5 mi (0.8 km) northwest of U.S. Highway 31, and 10 mi (16 km) northeast of Greenville. Owner: U.S. Geological Survey.
AQUIFER.--Ripley Formation of Late Cretaceous age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (15 cm), depth 290 ft (88 m), screened 280 to 290 ft (85 to 88 m).
DATUM.--Altitude of land-surface datum is 440 ft (134 m). Measuring point: Top of floor in recorder house, 2.51 ft (0.77 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--February 1970 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 218.9 ft (66.7 m) below land-surface datum, Mar. 7, 1970; lowest, 244.93 ft (74.65 m) below land-surface datum, Sept. 16, 1977.
EXTREMES FOR CURRENT YEAR.--Highest water level, 241.58 ft (73.63 m) below land-surface datum, Apr. 4; lowest, 244.93 ft (74.65 m) below land-surface datum, Sept. 16.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	243.53	243.02	242.38	---	242.15	242.00	241.80	241.80	242.52	243.39	244.19	244.73
10	243.48	242.88	242.34	---	242.22	242.02	241.91	241.85	242.74	243.58	244.31	244.87
15	243.45	242.63	---	---	242.15	241.92	241.91	242.00	242.94	243.76	244.45	244.91
20	243.44	242.53	---	---	242.09	241.88	241.83	242.16	243.10	243.84	244.34	244.79
25	243.28	242.59	---	242.09	241.97	241.86	241.73	242.29	243.10	244.03	244.54	244.73
EOM	243.05	242.42	---	242.16	242.11	241.78	241.83	242.37	243.26	244.04	244.67	244.64
MAX	243.53	243.06	243.47	242.16	242.23	242.13	241.97	242.37	243.26	244.14	244.67	244.93

CALHOUN COUNTY

334218085491701. Local number, Cal-1.
LOCATION.--Lat 33°42'18", long 85°49'17", Hydrologic Unit 03150106, in SW¼ sec. 20, T. 15 S., R. 8 E., at State Highway 21 on Fort McClellan Military Reservation and 3.3 mi (5.3 km) north of Anniston.
Owner: U.S. Army.
AQUIFER.--Conasauga Formation of Middle and Late Cambrian age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (15 cm), depth 212 ft (65 m), slotted 92 to 122 ft (28 to 37 m), open hole below.
DATUM.--Altitude of land-surface datum is 732 ft (223 m). Measuring point: Top of casing, 2.00 ft (0.60 m) above land-surface datum.
REMARKS.--Water level affected by pumping of nearby wells.
PERIOD OF RECORD.--June 1960 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 6.23 ft (1.90 m) below land-surface datum, Apr. 1, 1976; lowest, 64.7 ft (19.7 m) below land-surface datum, Dec. 31, 1965.
EXTREMES FOR CURRENT YEAR.--Highest water level, 9.06 ft (2.76 m) below land-surface datum, Apr. 13; lowest, 50.65 ft (15.44 m) below land-surface datum, Nov. 27, 28.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	43.29	48.23	50.06	44.49	---	18.71	---	16.56	28.14	37.36	---	48.56
10	44.19	48.79	49.54	41.96	---	---	---	20.21	30.16	39.22	---	49.21
15	45.04	49.22	48.36	34.06	---	---	9.89	23.19	31.90	40.80	---	49.77
20	46.00	49.70	47.72	30.55	---	---	11.25	25.56	33.40	42.29	45.80	48.95
25	46.73	50.35	47.23	28.60	---	---	12.02	24.04	34.81	44.06	46.75	49.55
EOM	47.49	50.07	45.48	---	26.00	---	13.79	26.11	36.21	45.77	47.75	45.93
MAX	47.49	50.65	50.06	45.48	26.00	23.90	13.79	26.37	36.21	45.77	48.03	49.77

CLARKE COUNTY

313040087531001. Local number, Cla-1.
LOCATION.--Lat 31°30'40", long 87°53'10", Hydrologic Unit 03160203, in SE¼ sec. 5, T. 6 N., R. 2 E., at City Hall, Jackson.
Owner: City of Jackson.
AQUIFER.--Sand and gravel of Miocene age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10 in (25 cm), depth 156 ft (48 m), screened 134 to 156 ft (41 to 48 m).
DATUM.--Altitude of land-surface datum is 227 ft (69 m). Measuring point: Top of casing, 0.25 ft (0.08 m) below land-surface datum.
REMARKS.--Water level affected by pumping of nearby municipal wells.
PERIOD OF RECORD.--April 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 101.64 ft (30.98 m) below land-surface datum, Dec. 25, 1975; lowest, 119.29 ft (36.36 m) below land-surface datum, Oct. 23, 1958.
EXTREMES FOR CURRENT YEAR.--Highest water level, 104.54 ft (31.86 m) below land-surface datum, Jan. 9; lowest, 109.76 ft (33.45 m) below land-surface datum, Sept. 22.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	108.02	108.53	108.68	107.61	109.28	109.23	109.13	109.28	109.06	109.26	109.37
10	107.59	107.51	108.53	---	109.27	108.01	109.58	109.21	109.33	109.37	109.27	109.57
15	107.29	107.68	108.57	---	109.13	109.46	108.89	108.51	108.99	109.16	109.42	109.57
20	107.37	107.95	107.81	---	108.74	109.54	109.15	108.80	109.06	109.14	109.20	109.32
25	107.38	107.88	108.56	---	109.40	109.37	108.04	108.86	109.08	109.24	109.45	109.05
EOM	---	108.70	108.57	108.74	109.62	109.51	108.78	109.28	109.34	109.24	109.52	109.37
MAX	108.12	108.70	108.73	109.36	109.62	109.69	109.66	109.63	109.34	109.40	109.52	109.76

COLBERT COUNTY

344622087375201. Local number, Col-1.
LOCATION.--Lat 34°46'22", long 87°37'52", Hydrologic Unit 06030005, in NW¼ sec. 30, T. 3 S., R. 10 W., at Diamond Alkali Co. plant, 0.2 mi (0.3 km) east of State Highway 133, and 2.7 mi (4.3 km) northeast of Muscle Shoals.
Owner: U.S. Army, Corps of Engineers.
AQUIFER.--Fort Payne Chert of Early Mississippian age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 8 in (20 cm), depth 265 ft (81 m), casing depth unknown, open hole below casing.
DATUM.--Altitude of land-surface datum is 527.8 ft (160.9 m). Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--February 1953 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.70 ft (1.43 m) below land-surface datum, Mar. 16, 1973; lowest, 40.30 ft (12.28 m) below land-surface datum, Nov. 3, 1961.
EXTREMES FOR CURRENT YEAR.--Highest water level, 6.34 ft (1.93 m) below land-surface datum, Mar. 4; lowest, 19.95 ft (6.08 m) below land-surface datum, Sept. 13.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	16.67	12.04	13.17	11.18	12.00	7.13	7.67	12.21	14.41	14.63	17.01	19.69
10	16.78	13.15	13.81	9.11	12.70	8.13	8.86	13.01	14.98	15.35	17.62	19.79
15	17.06	14.00	12.87	9.18	13.02	7.83	9.83	13.79	15.39	15.92	18.05	19.82
20	17.29	14.73	13.13	9.98	13.47	8.92	10.78	14.10	12.45	16.38	18.23	19.57
25	12.68	15.39	11.19	10.61	9.41	9.86	10.77	12.87	12.52	16.08	18.80	19.88
EOM	10.77	13.06	10.99	11.36	9.52	10.74	11.52	13.78	13.57	16.25	19.37	15.47
MAX	17.31	15.42	13.86	11.36	13.63	10.74	11.52	14.20	15.42	16.43	19.37	19.95

CULLMAN COUNTY

341031086504301. Local number, Cul-1.
LOCATION.--Lat 34°10'31", long 86°50'43", Hydrologic Unit 03160109, in NW¼ sec. 15, T. 10 S., R. 3 W., at Second Street and Third Avenue, Cullman.
Owner: City of Cullman.
AQUIFER.--Sandstone of Pottsville Formation of Early and Middle Pennsylvanian age.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 8 in (20 cm), depth 81 ft (25 m), cased to 13 ft (4 m), open hole below.
DATUM.--Altitude of land-surface datum is 768 ft (234 m). Measuring point: Top of casing, 1.30 ft (0.40 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--March 1952 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 8.28 ft (2.52 m) below land-surface datum, Apr. 4, 5, 1977; lowest, 26.62 ft (8.11 m) below land-surface datum, Aug. 6, 1952.
EXTREMES FOR CURRENT YEAR.--Highest water level, 8.28 ft (2.52 m) below land-surface datum, Apr. 4, 5; lowest, 11.31 ft (3.45 m) below land-surface datum, Nov. 23.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.85	11.03	11.12	10.65	10.48	9.65	9.11	9.85	10.47	10.98	10.93	---
10	10.79	10.98	11.26	10.36	10.48	9.68	9.62	10.06	10.55	10.97	10.98	---
15	10.83	10.94	10.72	10.18	10.36	9.53	9.67	10.26	10.61	10.99	11.15	---
20	10.95	10.94	10.75	10.40	10.30	9.70	9.78	10.21	10.58	11.13	10.98	---
25	10.83	11.17	10.79	10.20	9.79	9.75	9.62	10.16	10.63	11.14	11.13	---
EOM	10.84	11.04	10.85	10.42	9.84	9.37	9.89	10.32	10.75	10.82	---	---
MAX	11.10	11.31	11.30	10.92	10.61	9.93	9.89	10.37	10.75	11.16	11.23	---

ELMORE COUNTY

323757086013901. Local number, Elm-1.
LOCATION.--Lat 32°37'57", long 86°01'39", Hydrologic Unit 03150110, in NE¼ sec. 14, T. 19 N., R. 20 E., at Elmore County High School, Eclectic.
Owner: City of Eclectic.
AQUIFER.--Augen gneiss.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in (20 cm), depth 402 ft (123 m), cased to 63 ft (19 m), open hole below.
DATUM.--Altitude of land-surface datum is 557.5 ft (169.9 m). Measuring point: Top of casing, at land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--February 1953 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 6.34 ft (1.93 m) below land-surface datum, Apr. 8, 1960; lowest, 12.76 ft (3.89 m) below land-surface datum, Oct. 29, 1954.
EXTREMES FOR CURRENT YEAR.--Highest water level, 7.72 ft (2.35 m) below land-surface datum, Apr. 4; lowest, 11.01 ft (3.31 m) below land-surface datum, Nov. 22, 23.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.41	10.90	10.53	9.32	8.82	8.77	7.98	8.55	9.69	10.33	10.61	10.48
10	10.50	10.92	10.40	9.04	8.87	8.48	7.98	8.65	9.87	10.45	10.72	10.53
15	10.56	10.86	9.96	8.94	8.98	8.28	8.06	8.90	10.12	10.58	10.72	10.51
20	10.73	10.94	9.94	8.91	9.00	8.26	8.24	9.11	10.21	10.61	10.43	10.28
25	10.82	10.94	9.79	8.75	8.89	8.20	8.14	9.23	10.30	10.75	10.47	10.26
EOM	10.76	10.59	9.48	8.82	8.86	7.99	8.36	9.53	10.46	10.74	10.43	10.25
MAX	10.85	11.01	10.56	9.48	9.02	8.86	8.36	9.53	10.49	10.86	10.79	10.57

FRANKLIN COUNTY

343131087442801. Local number, Fra-1.
LOCATION.--Lat 34°31'31", long 87°44'28", Hydrologic Unit 06030006, in NW¼ sec. 19, T. 6 S., R. 11 W., at Russellville High School, Russellville.
Owner: City of Russellville.
AQUIFER.--Bangor Limestone of Late Mississippian age and sand and gravel of Tuscaloosa Group of Late Cretaceous age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (15 cm), depth 210 ft (64 m), slotted 140 to 146 ft (43 to 45 m), open hole below.
DATUM.--Altitude of land-surface datum is 890 ft (271 m). Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--December 1962 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 26.57 ft (8.10 m) below land-surface datum, Mar. 30, 1965; lowest, 44.15 ft (13.46 m) below land-surface datum, Nov. 27, 1963.
EXTREMES FOR CURRENT YEAR.--Highest water level, 30.11 ft (9.18 m) below land-surface datum, Mar. 13; lowest, 38.77 ft (11.82 m) below land-surface datum, Sept. 5.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	36.54	35.73	35.75	33.44	34.68	30.59	30.70	34.77	36.22	36.91	37.69	38.77
10	36.31	36.25	36.23	31.45	35.09	31.65	32.38	35.06	36.47	36.98	37.88	38.09
15	36.70	36.54	34.42	31.51	35.23	31.08	33.36	35.39	36.61	37.12	38.08	37.95
20	36.89	36.78	35.07	33.05	35.46	32.71	34.00	35.66	36.08	37.28	38.20	37.74
25	36.37	37.00	34.14	33.35	33.19	33.64	33.95	35.87	36.48	37.43	38.41	38.16
EOM	34.69	34.80	33.60	34.18	33.03	34.16	34.62	36.11	36.68	37.36	38.63	36.66
MAX	37.04	37.01	36.23	34.18	35.53	34.16	34.62	36.11	36.68	37.58	38.63	38.77

GREENE COUNTY

324930088063501. Local number, W-3 (USCE GW 1A).
LOCATION.--Lat 32°49'30", long 88°06'35", Hydrologic Unit 03160106, in SW¼ sec. 4, T. 21 N., R. 1 W., at east side of dirt road, 2.2 mi (3.5 km) south-southwest of New Mt. Hebron, 0.85 mi (1.37 km) northeast of Tombigbee River, and 2.8 mi (4.5 km) east of Gainesville.
Owner: U.S. Corps of Engineers.
AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 4 in (10 cm), depth 277 ft (84 m), screened 257 to 277 ft (78 to 84 m).
DATUM.--Altitude of land-surface datum is 110.1 ft (33.6 m). Measuring point: Top of casing, 2.20 ft (0.67 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--April 1976 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 15.31 ft (4.67 m) above land-surface datum, Mar. 22, 1977; lowest, 11.94 ft (3.64 m) above land-surface datum, Sept. 1, 2, 3, 1977.
EXTREMES FOR CURRENT YEAR.--Highest water level, 15.31 (4.67 m) above land-surface datum, Mar. 22; lowest, 11.94 ft (3.64 m) above land-surface datum, Sept. 1, 2, 3.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	+12.44	+12.50	+13.44	+13.65	+14.03	+14.38	+13.82	+12.88	+12.28	+12.36	+12.02
10	---	12.32	12.54	13.82	13.51	14.56	14.30	13.66	12.80	12.22	12.24	12.24
15	+13.00	12.46	12.74	14.09	13.58	15.00	14.32	13.56	12.70	12.22	12.14	12.22
20	12.99	12.42	13.26	14.01	13.54	15.05	14.28	13.42	12.62	12.16	12.12	12.22
25	12.93	12.38	13.35	13.82	13.62	14.57	14.18	13.12	12.50	12.12	12.04	12.16
EOM	+12.82	+12.42	+13.51	+13.76	+13.77	+14.46	+13.86	+13.02	+12.40	+12.40	+11.96	+12.26
MAX	+12.81	+12.32	+12.48	+13.44	+13.48	+13.81	+13.86	+13.00	+12.40	+12.12	+11.96	+11.94

GREENE COUNTY

324930088063502. Local number, W-4 (USCE GW 1B).
LOCATION.--Lat 32°49'30", long 88°06'35", Hydrologic Unit 03160106, in SW¼ sec. 4, T. 21 N., R. 1 W., at east side of dirt road, 2.2 mi (3.5 km) south-southwest of New Mt. Hebron, 0.85 mi (1.37 km) northeast of Tombigbee River, and 2.8 mi (4.5 km) east of Gainesville.
Owner: U.S. Corps of Engineers.
AQUIFER.--Sand and gravel of alluvial deposits of Quaternary age.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 4 in (10 cm), depth 32 ft (10 m), screened 22 to 32 ft (7 to 10 m).
DATUM.--Altitude of land-surface datum is 109.6 ft (33.4 m). Measuring point: Top of casing, 1.50 ft (0.46 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--June 1975 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.14 ft (0.65 m) below land-surface datum, Mar. 27, 1976; lowest, 10.50 ft (3.20 m) below land-surface datum, Nov. 28, 29, Dec. 8, 9, 1976.
EXTREMES FOR CURRENT YEAR.--Highest water level, 2.42 ft (0.74 m) below land-surface datum, Apr. 1; lowest, 10.50 ft (3.20 m) below land-surface datum, Nov. 28. 29, Dec. 8. 9.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.70	10.28	10.48	8.61	5.79	3.71	2.97	4.37	7.15	9.22	---	---
10	9.81	10.35	10.48	5.99	5.87	3.78	3.59	4.74	7.66	9.39	---	---
15	9.92	10.40	10.25	5.15	5.56	3.71	3.93	5.09	8.05	9.44	---	---
20	10.03	10.44	9.90	5.65	5.70	3.94	4.18	5.54	8.32	9.55	---	---
25	10.12	10.48	9.71	5.42	4.42	3.47	4.01	6.05	8.66	9.69	---	---
EOM	10.21	10.49	8.80	5.71	4.26	3.10	4.40	6.59	8.95	9.55	---	---
MAX	10.21	10.50	10.50	8.76	5.87	4.38	4.40	6.59	8.95	9.72	9.61	---

GREENE COUNTY

325005087532001. Local number, Gre-3.
LOCATION.--Lat 32°50'05", long 87°53'20", Hydrologic Unit 03160113, in SE¼ sec. 33, T. 22 N., R. 2 E., at Greene County warehouse on Roberts Street, Eutaw.
Owner: City of Eutaw.
AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in (10 cm), depth 407 ft (124 m), screened 395 to 407 ft (120 to 124 m).
DATUM.--Altitude of land-surface datum is 172.14 ft (52.47 m). Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.
REMARKS.--Water level affected by pumping of nearby municipal wells.
PERIOD OF RECORD.--August 1952 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 35.94 ft (10.95 m) below land-surface datum, Apr. 2, 1953; lowest, 45.20 ft (13.78 m) below land-surface datum, July 16, 17, 18, 1977.
EXTREMES FOR CURRENT YEAR.--Highest water level, 42.64 ft (13.00 m) below land-surface datum, Apr. 15, 16; lowest, 45.20 ft (13.78 m) below land-surface datum, July 16, 17, 18.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	44.13	44.24	44.40	44.19	43.89	43.28	42.75	43.12	44.49	44.93	44.51	44.92
10	44.22	44.35	44.45	43.87	43.84	43.11	42.77	43.23	44.87	45.11	44.54	44.54
15	44.24	44.38	44.51	43.94	43.69	43.06	42.65	43.39	45.03	45.19	44.70	44.32
20	44.13	44.41	44.51	43.99	43.66	43.11	42.77	43.45	44.98	45.16	44.80	44.04
25	44.12	44.36	44.31	44.12	43.47	43.00	42.91	43.63	44.82	45.09	44.83	---
EOM	44.17	44.36	44.08	44.10	43.46	42.85	42.99	44.19	44.83	44.56	44.82	---
MAX	44.24	44.41	44.52	44.19	44.09	43.44	42.99	44.19	45.04	45.20	44.83	44.92

GREENE COUNTY

325213088092301. Local number, 0-2 (USCE 135A).
LOCATION.--Lat 32°52'13", long 88°09'23", Hydrologic Unit 03160106, in SW¼ sec. 24, T. 22 N., R. 2 W., at dirt road, 0.6 mi (1.0 km) north of Tombigbee River, and 3.2 mi (5.2 km) north of Gainesville.
Owner: U.S. Corps of Engineers.
AQUIFER.--Sand and gravel of alluvial deposits of Quaternary age.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 4 in (10 cm), depth 38 ft (12 m), screened 28 to 38 ft (9 to 12 m).
DATUM.--Altitude of land-surface datum is 112.8 ft (34.4 m). Measuring point: Top of casing, 2.50 ft (0.76 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--September 1972 to April 1975 (periodic only), June 1975 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1.86 ft (0.57 m) below land-surface datum, Mar. 27, 1976; lowest, 9.98 ft (3.04 m) below land-surface datum, Nov. 30, 1972.
EXTREMES FOR CURRENT YEAR.--Highest water level, 2.00 ft (0.61 m) below land-surface datum, Apr. 4; lowest, 8.86 ft (2.70 m) below land-surface datum, Sept. 5.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.13	8.61	8.02	4.73	3.79	2.69	2.29	3.54	6.13	7.96	7.79	8.86
10	8.17	8.65	7.94	2.97	3.89	2.98	2.93	3.88	6.59	8.08	8.02	8.47
15	8.29	8.43	6.67	3.19	3.68	2.89	3.19	4.26	6.95	8.10	8.22	8.58
20	8.41	8.49	6.62	3.59	3.83	3.07	3.52	4.71	7.17	8.24	8.39	8.62
25	8.48	8.48	6.29	3.43	2.83	2.89	3.15	5.09	7.47	8.38	8.55	8.75
EOM	8.55	8.00	4.99	3.69	2.99	2.59	3.58	5.59	7.69	7.82	8.74	8.70
MAX	8.55	8.69	8.02	5.12	3.89	3.15	3.58	5.59	7.69	8.38	8.74	8.86

HALE COUNTY

324205087352801. Local number, Hal-1.
LOCATION.--Lat 32°42'05", long 87°35'28", Hydrologic Unit 03160113, in SE¼ sec. 17, t. 20 N., R. 5 E., at old city waterworks lot and about 200 ft (61 m) east of State Highway 69, Greensboro.
Owner: City of Greensboro.
AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10 in (25 cm), depth 278 ft (85 m), screened 258 to 278 ft (79 to 85 m).
DATUM.--Altitude of land-surface datum is 257 ft (78 m). Measuring point: Top of casing, at land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--November 1961 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 40.12 ft (12.23 m) below land-surface datum, Apr. 12, 1962; lowest, 55.57 ft (16.94 m) below land-surface datum, Sept. 29, 30, 1977.
EXTREMES FOR CURRENT YEAR.--Highest water level, 51.59 ft (15.72 m) below land-surface datum, Apr. 8, 9, 10; lowest, 55.57 ft (16.94 m) below land-surface datum, Sept. 29, 30.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	52.13	52.66	52.75	52.29	52.21	52.12	51.63	51.81	52.37	53.12	53.63	55.47
10	52.23	52.72	52.74	52.25	52.26	52.05	51.60	51.86	52.49	53.27	53.96	55.49
15	52.32	52.75	52.65	52.23	52.25	51.93	51.61	51.93	52.62	53.36	54.48	55.50
20	52.40	52.73	52.55	52.23	52.25	51.87	51.66	52.05	52.73	53.44	54.85	55.51
25	52.48	52.75	52.48	52.22	52.22	51.82	51.69	52.16	52.85	53.54	55.08	55.53
EOM	52.58	52.74	52.34	52.20	52.17	51.75	51.74	52.26	52.98	53.62	55.32	55.57
MAX	52.58	52.76	52.75	52.33	52.27	52.17	51.74	52.26	52.98	53.62	55.32	55.57

JACKSON COUNTY

344003086012102. Local number, Jac-2.
LOCATION.--Lat 34°40'03", long 86°01'21", Hydrologic Unit 06030001, in NW¼ sec. 29, T. 4 S., R. 6 E., at State Highway 35 and 0.45 mi (0.72 km) south of U.S. Highway 72, Scottsboro.
Owner: U.S. Geological Survey.
AQUIFER.--Fort Payne Chert of Early Mississippian age.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in (15 cm), depth 40 ft (12 m), slotted 35 to 40 ft (11 to 12 m).
DATUM.--Altitude of land-surface datum is 648.68 ft (197.72 m). Measuring point: Top of casing, 2.20 ft (0.67 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--January 1971 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1.00 ft (0.30 m) below land-surface datum, Mar. 12, 1977; lowest, 21.00 ft (6.40 m) below land-surface datum, Sept. 17, 1972.
EXTREMES FOR CURRENT YEAR.--Highest water level, 1.00 ft (0.30 m) below land-surface datum, Mar. 12; lowest, 16.90 ft (5.15 m) below land-surface datum, Sept. 9.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.05	9.70	8.97	7.94	9.56	5.86	4.15	8.02	11.00	14.09	15.39	16.71
10	10.19	10.30	8.63	5.45	9.87	7.34	7.80	7.77	11.83	14.66	15.80	11.31
15	11.03	10.31	7.10	6.53	9.66	6.16	9.12	9.46	11.97	13.03	14.64	11.45
20	11.57	10.30	8.44	8.54	9.91	8.13	9.90	10.32	12.56	14.06	13.59	9.29
25	11.07	10.51	8.00	7.91	6.74	8.57	7.59	9.83	13.23	14.61	14.59	10.91
EOM	8.02	6.94	7.79	9.11	6.45	5.29	9.29	10.14	13.46	14.87	15.64	9.43
MAX	11.69	10.52	9.05	9.11	10.01	8.90	10.07	10.52	13.46	14.92	15.80	16.90

JEFFERSON COUNTY

332605086523001. Local number, Jef-1.
LOCATION.--Lat 33°26'05", long 86°52'30", Hydrologic Unit 03150202, in SW¼ sec. 29, T. 18 S., R. 3 W., at County Road 42, 1.0 mi (1.6 km) west of Oxmoor, and 2.9 mi (4.7 km) southeast of Midfield.
Owner: Woodward Iron Company.
AQUIFER.--Bangor Limestone of Late Mississippian age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (15 cm), depth 140 ft (43 m), cased to 68 ft (21 m), open hole below.
DATUM.--Altitude of land-surface datum is 641.94 ft (195.66 m). Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--June 1954 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 9.28 ft (2.83 m) below land-surface datum, Apr. 4, 1977; lowest, 83.04 ft (25.31 m) below land-surface datum, Dec. 27, 28, 1954.
EXTREMES FOR CURRENT YEAR.--Highest water level, 9.28 ft (2.83 m) below land-surface datum, Apr. 4; lowest, 29.45 ft (8.98 m) below land-surface datum, Nov. 13.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	26.64	28.98	28.17	21.73	18.41	15.83	10.47	14.16	20.34	25.05	27.14	29.29
10	27.18	29.15	27.90	19.48	19.19	14.51	11.57	15.62	21.49	25.68	27.55	27.11
15	27.55	28.89	25.86	18.08	19.74	13.63	12.35	17.15	22.51	25.70	27.98	26.39
20	28.09	28.70	24.95	18.07	20.26	14.10	13.92	18.48	23.24	25.95	28.30	25.57
25	28.25	28.92	23.77	17.76	18.87	13.25	12.87	19.33	23.66	26.46	28.63	25.57
EOM	28.61	28.56	22.03	17.89	17.17	11.86	13.25	19.36	24.44	26.76	29.03	24.25
MAX	28.64	29.45	28.37	22.10	20.47	17.01	14.41	19.36	24.44	26.76	29.03	29.34

LAUDERDALE COUNTY

345034087552201. Local number, Lau-1.
LOCATION.--Lat 34°50'34", long 87°55'22", Hydrologic Unit 06030005, in NE¼ sec. 32, T. 2 S., R. 13 W., at county road on northeast bank of Pickwick Lake (Tennessee River), 0.10 mi (0.16 km) north of Natchez Trace Highway, and 3.0 mi (4.8 km) south-southwest of Gravelly Springs.
Owner: U.S. Park Service.
AQUIFER.--Fort Payne Chert of Early Mississippian age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (15 cm), depth 344 ft (105 m), cased to 30 ft (9 m), open hole below.
DATUM.--Altitude of land-surface datum is 435 ft (133 m). Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.
REMARKS.--Water levels affected by stage of Pickwick Lake. Recorder removed Sept. 14, 1977.
PERIOD OF RECORD.--May 1967 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 13.68 ft (4.17 m) below land-surface datum, Mar. 14, 1975; lowest, 24.04 ft (7.33 m) below land-surface datum, Dec. 11, 1968.
EXTREMES FOR CURRENT YEAR.--Highest water level, 16.20 ft (4.94 m) below land-surface datum, Apr. 5; lowest, 23.77 ft (7.25 m) below land-surface datum, Jan. 5.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	21.72	22.52	23.27	23.77	23.35	18.96	16.98	19.11	19.60	19.95	20.89	21.30
10	21.77	23.04	23.41	22.79	23.29	21.65	17.55	19.74	19.45	20.14	21.25	21.00
15	22.29	23.30	23.31	21.71	23.46	19.58	19.96	20.09	19.08	20.03	21.14	---
20	21.57	22.71	23.55	22.70	23.42	21.42	19.51	19.59	19.61	20.41	20.98	---
25	22.36	---	23.30	22.93	22.45	21.54	19.41	18.99	19.36	20.54	20.78	---
EOM	22.67	---	23.20	23.45	22.61	22.55	19.16	18.87	19.71	20.71	21.31	---
MAX	22.67	23.30	23.57	23.77	23.61	22.67	22.25	20.09	20.14	20.80	21.55	21.38

342718087285601. Local number, Law-3.
LOCATION.--Lat 34°27'18", long 87°28'56", Hydrologic Unit 06030005, in SE¼ sec. 9, T. 7 S., R. 9 W., at Mt. Hope Church of Christ, 0.6 mi (1.0 km) south of State Highway 24 and 0.05 mi (0.08 km) west of county road. Owner: Mt. Hope Church of Christ.
AQUIFER.--Bangor Limestone of Late Mississippian age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (15 cm), depth 54 ft (16 m), casing depth unknown, open hole below casing.
DATUM.--Altitude of land-surface datum is 650 ft (198 m). Measuring point: Top of casing, at land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--September 1960 to February 1975 (periodic only), July 1976 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.18 ft (1.27 m) below land-surface datum, Mar. 4, 1977; lowest, 23.96 ft (7.30 m) below land-surface datum, Aug. 17, 1970.
EXTREMES FOR CURRENT YEAR.--Highest water level, 4.18 ft (1.27 m) below land-surface datum, Mar. 4; lowest, 14.42 ft (4.40 m) below land-surface datum, Sept. 5.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Sept. 6, 1960	22.30	Dec. 4, 1968	8.55	Apr. 15, 1971	7.90	June 28, 1973	10.18
Oct. 9, 1967	10.21	Feb. 12, 1969	5.62	Apr. 20	8.90	Nov. 16	10.10
Dec. 8	16.07	May 6	7.25	July 8	12.60	Apr. 8, 1974	6.31
Apr. 10, 1968	5.46	Oct. 10	8.59	Jan. 24, 1972	6.79	Sept.23	8.55
May 1	7.35	Mar. 17, 1970	6.82	Nov. 1	10.28	Oct. 22	9.29
Aug. 5	23.74	Aug. 17	23.96	Feb. 13, 1973	6.41	Feb. 18, 1975	5.47
Oct. 21	10.54	Jan. 12, 1971	6.75	Apr. 18	7.01		

LOWEST WATER LFVEL FOR THE DAY, WATER YEAR OCTOBFR 1975 TO SEPTEMBER 1976
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	---	---	---	---	9.28	7.98
10	---	---	---	---	---	---	---	---	---	9.72	10.32	9.06
15	---	---	---	---	---	---	---	---	---	10.46	11.04	10.13
20	---	---	---	---	---	---	---	---	---	10.31	11.21	10.62
25	---	---	---	---	---	---	---	---	---	11.04	11.73	10.62
EOM	---	---	---	---	---	---	---	---	---	7.55	9.10	9.99
MAX	---	---	---	---	---	---	---	---	---	11.10	11.91	10.90

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.00	8.71	7.91	6.80	8.07	5.43	---	---	---	13.03	---	14.42
10	9.68	9.56	8.73	6.01	8.70	6.50	---	---	---	12.93	---	---
15	10.64	9.72	7.14	6.21	8.48	6.18	---	---	---	14.10	---	---
20	11.17	10.20	7.90	7.12	8.95	---	---	---	---	13.70	10.70	---
25	8.96	10.40	7.63	6.71	6.05	---	---	---	---	---	12.16	---
EOM	7.28	6.66	6.66	7.51	6.07	---	---	---	---	---	13.56	---
MAX	11.17	10.42	8.79	7.51	9.13	6.59	9.14	---	---	14.41	13.56	14.42

LAWRENCE COUNTY

344004087205101. Local number, Law-2.
LOCATION.--Lat 34°40'04", long 87°20'51", Hydrologic Unit 06030005, in SW¼ sec. 26, T. 4 S., R. 8 W., at abandoned Courtland Air Base and 2.0 mi (3.2 km) west of Courtland. Owner: State of Alabama.
AQUIFER.--Fort Payne Chert of Early Mississippian age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in (30 cm), depth 200 ft (61 m), cased to 55 ft (17 m), open hole below.
DATUM.--Altitude of land-surface datum is 582 ft (177 m). Measuring point: Top of casing, at land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--June 1961 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 9.60 ft (2.92 m) below land-surface datum, Mar. 17, 1973; lowest, 50.6 ft (15.4 m) below land-surface datum, Nov. 1, 2, 1963.
EXTREMES FOR CURRENT YEAR.--Highest water level, 13.13 ft (4.00 m) below land-surface datum, Mar. 13; lowest, 47.99 ft (16.70 m) below land-surface datum, Sept. 7.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	42.40	39.31	36.65	37.71	16.45	15.14	29.91	39.82	39.70	43.50	47.94
10	---	43.13	40.20	32.29	38.81	16.94	18.10	32.19	40.20	40.50	43.88	47.08
15	45.20	43.71	39.36	30.82	38.92	15.13	21.02	34.24	37.90	41.35	44.24	46.73
20	45.45	44.13	39.71	32.93	39.84	18.71	24.95	36.02	35.07	42.10	44.40	46.34
25	45.41	44.46	38.03	34.23	35.18	22.31	24.91	37.60	36.32	42.70	44.94	45.93
EOM	42.56	40.51	36.20	36.29	30.16	26.25	27.78	39.03	38.32	43.13	46.45	45.05
MAX	45.56	44.57	40.36	36.89	40.20	30.81	27.78	39.03	40.60	43.13	46.45	47.99

LIMESTONE COUNTY

344819086581601. Local number, Lim-4.
LOCATION.--Lat 34°48'19", long 86°58'16", Hydrologic Unit 06030002, in SE¼ sec. 5, T. 3 S., R. 4 W., at City Hall on Bryan Street, Athens.
Owner: City of Athens.
AQUIFER.--Fort Payne Chert of Early Mississippian age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (15 cm), depth 143 ft (44 m), cased to 52 ft (16 m), open hole below.
DATUM.--Altitude of land-surface datum is 711 ft (217 m). Measuring point: Top of casing, 0.50 ft (0.15 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--January 1961 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 11.20 ft (3.41 m) below land-surface datum, Mar. 4, 1977; lowest, 43.09 ft (13.13 m) below land-surface datum, Nov. 1, 1968.
EXTREMES FOR CURRENT YEAR.--Highest water level, 11.20 ft (3.41 m) below land-surface datum, Mar. 4; lowest, 19.99 ft (6.09 m) below land-surface datum, Sept. 6.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	18.98	17.23	16.90	16.12	16.44	11.71	12.30	14.93	17.86	18.57	19.48	19.95
10	18.80	17.41	17.16	15.35	16.68	13.54	13.68	15.61	18.23	18.73	19.59	19.56
15	18.92	17.64	16.72	15.04	16.81	12.89	14.61	16.25	18.41	18.87	19.70	19.20
20	19.07	17.77	16.70	15.49	16.92	14.15	15.46	16.79	18.01	18.94	19.47	18.88
25	18.56	17.98	15.94	15.68	15.16	14.92	13.41	17.09	18.09	19.09	19.74	19.01
EOM	17.12	17.14	16.05	16.11	14.13	15.38	14.47	17.61	18.40	19.24	19.88	18.13
MAX	19.49	18.05	17.21	16.12	16.97	15.38	15.57	17.61	18.66	19.24	19.88	19.99

MADISON COUNTY

343540086344801. Local number, Mad-5.
LOCATION.--Lat 34°35'40", long 86°34'48", Hydrologic Unit 06030002, in NE¼ sec. 24, T. 5 S., R. 1 W., at Buxton Road, 1.0 mi (1.6 km) west of U.S. Highway 231, and 9.5 mi (15.3 km) south of Huntsville.
Owner: Josh Walling, Jr.
AQUIFER.--Fort Payne Chert of Early Mississippian age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (15 cm), depth 285 ft (87 m), cased to 28 ft (9 m), open hole below.
DATUM.--Altitude of land-surface datum is 570 ft (174 m). Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--October 1959 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.35 ft (0.11 m) below land-surface datum, Mar. 14, 1963; lowest, 19.37 ft (5.90 m) below land-surface datum, Nov. 19, 1963.
EXTREMES FOR CURRENT YEAR.--Highest water level, 3.79 ft (1.16 m) below land-surface datum, Apr. 5; lowest, 16.19 ft (4.93 m) below land-surface datum, Sept. 6.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	12.46	---	11.98	14.35	6.65	3.79	12.48	12.43	14.57	14.67	16.16
10	13.47	---	---	7.22	15.06	8.64	6.39	12.81	13.20	14.82	15.14	14.63
15	13.76	---	---	8.84	15.21	5.89	9.20	13.39	13.38	14.52	15.52	15.02
20	13.76	---	---	10.85	15.80	9.16	10.44	13.64	13.83	14.80	15.19	11.98
25	11.77	16.18	---	11.90	11.08	10.98	10.88	9.73	13.99	14.83	15.67	14.14
EOM	11.77	---	---	13.05	9.79	9.95	11.83	11.37	14.19	14.72	16.01	12.13
MAX	13.76	---	---	13.05	15.80	10.98	11.83	13.69	14.19	14.91	16.06	16.19

MADISON COUNTY

344127086350401. Local number, Mad-2.
LOCATION.--Lat 34°41'27", long 86°35'04", Hydrologic Unit 06030002, in NW¼ sec. 13, T. 4 S., R. 1 W., at northeast end of northeast-southwest runway at Huntsville airport and 3.0 mi (4.8 km) southeast of Huntsville.
Owner: City of Huntsville.
AQUIFER.--Fort Payne Chert of Early Mississippian age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (15 cm), depth 168 ft (51 m), cased to 56 ft (17 m), open hole below.
DATUM.--Altitude of land-surface datum is 613 ft (187 m). Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--June 1953 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 19.13 ft (5.83 m) below land-surface datum, Jan. 31, 1962; lowest, 44.30 ft (13.50 m) below land-surface datum, Sept. 13, 1962.
EXTREMES FOR CURRENT YEAR.--Highest water level, 28.25 ft (8.61 m) below land-surface datum, Mar. 15; lowest, 39.64 ft (12.08 m) below land-surface datum, Sept. 2, 3.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	37.20	36.60	36.10	35.00	35.18	34.59	31.82	34.53	37.26	38.62	39.20	39.61
10	37.34	36.75	36.22	34.36	35.90	31.40	29.75	35.20	37.61	38.70	39.24	39.39
15	37.60	37.18	36.22	32.94	36.48	28.48	31.06	35.82	37.96	38.82	39.39	39.18
20	38.05	37.47	36.21	33.30	36.83	30.03	32.31	36.34	38.03	38.82	39.32	38.34
25	38.21	37.86	35.92	33.79	36.88	31.44	33.05	36.56	38.17	38.88	39.44	38.10
EOM	36.64	37.55	35.08	34.63	36.43	32.83	33.86	36.98	38.44	39.02	39.58	37.74
MAX	38.30	37.91	37.06	35.15	36.93	36.09	33.86	36.98	38.44	39.04	39.62	39.64

MADISON COUNTY

344402086343901. Local number, Mad-1.
LOCATION.--Lat 34°44'02", long 86°34'39", Hydrologic Unit 06030002, in SE¼ sec. 36, T. 3 S., R. 1 W., at City Junior High School, Huntsville.
Owner: City of Huntsville.
AQUIFER.--Fort Payne Chert of Early Mississippian age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in (20 cm), depth 140 ft (43 m), cased to 69 ft (21 m), open hole below.
DATUM.--Altitude of land-surface datum is 660 ft (201 m). Measuring point: Top of casing, 0.50 ft (0.15 m) above land-surface datum.
REMARKS.--Water levels affected by pumping of nearby wells.
PERIOD OF RECORD.--May 1951 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 49.27 ft (15.02 m) below land-surface datum, Jan. 13, 1968; lowest, 65.70 ft (20.03 m) below land-surface datum, Oct. 7, 1963.
EXTREMES FOR CURRENT YEAR.--Highest water level, 55.28 ft (16.85 m) below land-surface datum, Jan. 20; lowest, 61.90 ft (18.87 m) below land-surface datum, Sept. 5.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	58.90	58.20	58.40	57.60	57.10	---	---	---	58.30	---	61.50	61.90
10	59.00	58.40	58.40	57.80	---	---	---	---	59.50	60.50	61.50	59.90
15	59.00	58.80	58.30	56.50	---	---	---	56.60	58.60	60.60	61.20	59.60
20	59.40	59.00	58.30	56.50	57.90	---	---	57.20	---	---	61.10	---
25	59.10	59.30	57.90	56.60	---	---	---	57.50	59.40	61.30	61.30	---
EOM	58.30	58.60	57.60	56.80	---	---	---	57.90	---	61.40	61.60	---
MAX	59.40	59.30	58.40	57.80	57.90	---	---	57.90	59.50	61.40	61.60	61.90

MADISON COUNTY

344445086345301. Local number, Mad-7.
LOCATION.--Lat 34°44'45", long 86°34'53", Hydrologic Unit 06030002, in SE¼ sec. 25, T. 3 S., R. 1 W., at Dallas Mills plant, Huntsville.
Owner: Dallas Mills, Inc.
AQUIFER.--Fort Payne Chert of Early Mississippian age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 20 in (51 cm), depth 104 ft (32 m), cased to 61 ft (19 m), open hole below.
DATUM.--Altitude of land-surface datum is 643.5 ft (196.1 m). Measuring point: Top of casing, 0.50 ft (0.15 m) above land-surface datum.
REMARKS.--Water levels affected by pumping of nearby wells.
PERIOD OF RECORD.--May 1962 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 21.00 ft (6.40 m) below land-surface datum, Apr. 14, 1964; lowest, 46.40 ft (14.14 m) below land-surface datum, Sept. 7, 1963.
EXTREMES FOR CURRENT YEAR.--Highest water level, 22.58 ft (6.88 m) below land-surface datum, Mar. 14; lowest, 41.20 ft (12.56 m) below land-surface datum, July 23.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	38.53	37.51	37.70	36.50	35.50	31.70	---	---	36.62	---	---	---
10	38.58	37.78	37.67	35.18	36.16	31.72	---	---	---	40.18	---	---
15	39.70	38.37	37.50	34.60	36.57	28.50	---	34.60	---	40.67	---	---
20	40.13	38.62	37.61	34.50	36.98	---	---	35.67	---	41.02	---	---
25	39.22	38.87	37.00	34.66	36.70	---	---	36.22	---	---	---	---
EOM	37.64	38.00	36.41	35.00	35.71	---	---	36.98	---	---	---	---
MAX	40.13	38.87	37.70	36.50	36.98	---	---	36.98	---	---	---	---

MADISON COUNTY

344457086363701. Local number, Mad-4.
LOCATION.--Lat 34°44'57", long 86°36'37", Hydrologic Unit 06030002, in SE¼ sec. 27, T. 3 S., R. 1 W., at Huntsville Golf and Country Club and 1.5 mi (2.4 km) northwest of Huntsville.
Owner: Huntsville Golf and Country Club.
AQUIFER.--Fort Payne Chert of Early Mississippian age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (15 cm), depth 145 ft (44 m), cased to 96 ft (29 m), open hole below.
DATUM.--Altitude of land-surface datum is 686 ft (209 m). Measuring point: Top of casing, 0.60 ft (0.18 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--June 1956 to March 1959, May 1962 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 34.2 ft (10.4 m) below land-surface datum, Mar. 31, 1973; lowest, 79.98 ft (24.38 m) below land-surface datum, Dec. 7, 1956.
EXTREMES FOR CURRENT YEAR.--Highest water level, 40.12 ft (12.23 m) below land-surface datum, Apr. 13, 14; lowest, 73.94 ft (22.54 m) below land-surface datum, Sept. 6, 7.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	67.63	65.19	65.65	62.19	57.99	57.24	43.05	44.92	57.43	67.99	71.76	73.84
10	67.97	65.55	65.68	60.78	58.81	52.70	40.45	46.96	59.66	68.68	72.17	72.90
15	68.70	66.62	65.43	58.77	59.65	46.90	40.25	49.27	61.70	69.37	72.70	72.57
20	69.39	67.65	65.21	57.76	60.76	44.05	41.19	51.44	63.45	70.17	72.47	70.99
25	69.56	68.47	64.25	57.29	61.06	43.49	42.01	53.15	65.43	70.62	73.03	70.72
EOM	65.31	67.40	62.57	57.47	60.07	43.99	43.45	55.33	66.96	71.19	73.62	68.72
MAX	69.72	68.57	66.62	62.55	61.39	59.65	44.13	55.33	66.96	71.19	73.62	73.94

MARENGO COUNTY

321520087373001. Local number, Mag-2.
LOCATION.--Lat 32°15'20", long 87°37'30", Hydrologic Unit 03160201, in NE¼ sec. 24, T. 15 N., R. 4 E., at Thomaston Prison and 0.6 mi (1.0 km) south of Thomaston.
Owner: State of Alabama.
AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in (10 cm), depth 1,222 ft (372 m), cased to 20 ft (6 m), open hole 20 to 1,202 ft (6 to 366 m), screened 1,202 to 1,222 ft (366 to 372 m).
DATUM.--Altitude of land-surface datum is 154 ft (47 m). Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--April 1954 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.83 ft (2.39 m) below land-surface datum, Mar. 30, 1954; lowest, 19.05 ft (5.81 m) below land-surface datum, July 3, 1975.
EXTREMES FOR CURRENT YEAR.--Highest water level, 17.67 ft (5.39 m) below land-surface datum, Mar. 12; lowest, 18.92 ft (5.77 m) below land-surface datum, June 28, 29.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	18.13	18.35	18.19	18.19	18.09	18.02	18.02	18.07	18.28	18.68	18.47	18.66
10	18.18	18.32	18.21	18.15	18.12	18.00	18.10	18.07	18.34	18.61	18.51	18.60
15	18.19	18.21	18.05	18.03	18.09	17.99	18.07	18.15	18.54	18.57	18.71	18.56
20	18.30	18.21	18.12	18.10	18.10	18.02	18.10	18.18	18.54	18.57	18.73	18.51
25	18.23	18.25	18.13	18.04	17.99	18.01	17.99	18.20	18.76	18.56	18.71	18.54
EOM	18.29	18.21	18.10	18.11	18.08	18.01	18.11	18.25	18.91	18.41	18.71	18.50
MAX	18.35	18.35	18.23	18.20	18.15	18.08	18.14	18.25	18.92	18.87	18.78	18.72

MARENGO COUNTY

323055087504101. Local number, Mag-1.
LOCATION.--Lat 32°30'55", long 87°50'41", Hydrologic Unit 03160201, in SW¼ sec. 24, T. 18 N., R. 2 E., at J. C. Webb Compress Co., Demopolis.
Owner: J. C. Webb Compress Co.
AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in (10 cm), depth 900 ft (274 m), slotted 860 to 900 ft (262 to 274 m).
DATUM.--Altitude of land-surface datum is 110 ft (34 m). Measuring point: Top of casing, at land-surface datum.
REMARKS.--Water levels affected by pumping of nearby wells.
PERIOD OF RECORD.--August 1953 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.15 ft (0.05 m) below land-surface datum, Feb. 26, 1954; lowest, 24.12 ft (7.35 m) below land-surface datum, Sept. 3, 4, 5, 1977.
EXTREMES FOR CURRENT YEAR.--Highest water level, 9.61 ft (2.93 m) below land-surface datum, Jan. 7, 8, 9, 10; lowest, 24.12 ft (7.35 m) below land-surface datum, Sept. 3, 4, 5.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	15.70	16.28	---	9.80	18.78	14.62	13.31	16.33	19.09	23.17	20.48	24.12
10	15.83	16.35	---	9.69	15.96	13.42	12.98	14.57	19.72	23.65	22.38	23.30
15	16.23	16.49	10.25	10.68	15.11	12.93	13.55	14.54	20.09	23.36	22.06	23.20
20	14.66	15.18	10.47	11.98	15.81	13.10	14.56	16.39	20.60	23.17	23.07	23.12
25	15.06	---	10.98	18.48	16.21	14.31	14.66	17.51	22.57	23.53	23.26	22.46
EOM	15.73	---	10.39	19.92	16.16	13.91	16.18	18.56	21.52	23.31	23.76	23.13
MAX	16.33	16.65	11.09	19.92	20.25	15.86	16.18	18.56	22.57	23.65	23.76	24.12

MARION COUNTY

335803087551301. Local number, Mar-1.
LOCATION.--Lat 33°58'03", long 87°55'13", Hydrologic Unit 03160103, in SE¼ sec. 32, T. 12 S., R. 13 W., at 15th Street and 0.35 mi (0.56 km) west of U.S. Highway 78, Guin.
Owner: M. M. Burleson.
AQUIFER.--Sandstone of Pottsville Formation of Early and Middle Pennsylvanian age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (15 cm), depth 520 ft (158 m), cased to 80 ft (24 m), open hole below.
DATUM.--Altitude of land-surface datum is 452 ft (138 m). Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--March 1952 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.6 ft (1.1 m) below land-surface datum, Mar. 31, 1972; lowest, 11.76 ft (3.58 m) below land-surface datum, Nov. 10, 1954.
EXTREMES FOR CURRENT YEAR.--Highest water level, 4.91 ft (1.50 m) below land-surface datum, Apr. 4; lowest, 6.73 ft (2.05 m) below land-surface datum, Sept. 11.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	6.12	6.40	6.38	6.13	6.01	5.68	5.27	5.53	5.90	6.28	6.40	6.62
10	6.17	6.29	6.48	6.06	6.07	5.54	5.43	5.59	6.01	6.31	6.46	6.70
15	6.17	6.33	6.14	5.85	6.10	5.47	5.36	5.71	6.11	6.36	6.53	6.66
20	6.34	6.30	6.20	5.96	6.05	5.54	5.45	5.77	6.07	6.36	6.47	6.64
25	6.18	6.41	6.08	5.81	5.80	5.54	5.38	5.76	6.13	6.39	6.59	6.64
EOM	6.32	6.40	6.18	6.00	5.92	5.62	5.60	5.88	6.25	6.28	6.65	6.52
MAX	6.42	6.55	6.52	6.24	6.15	5.90	5.60	5.88	6.25	6.40	6.70	6.73

MARSHALL COUNTY

341837086294301. Local number, Mal-4.
LOCATION.--Lat 34°18'37", long 86°29'43", Hydrologic Unit 03160109, in SE¼ sec. 26, T. 8 S., R. 1 E., at U.S. Highway 231 and 0.6 mi (1.0 km) south of Arab.
Owner: City of Arab.
AQUIFER.--Sandstone of Pottsville Formation of Early and Middle Pennsylvanian age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in (20 cm), depth 362 ft (110 m), cased to 100 ft (30 m), open hole below.
DATUM.--Altitude of land-surface datum is 1,080 ft (320 m). Measuring point: Top of casing, at land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--January 1962 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 50.11 ft (15.27 m) below land-surface datum, Feb. 12, 1966; lowest, 77.14 ft (23.51 m) below land-surface datum, Sept. 6, 1977.
EXTREMES FOR CURRENT YEAR.--Highest water level, 66.72 ft (20.34 m) below land-surface datum, Apr. 4; lowest, 77.14 ft (23.51 m) below land-surface datum, Sept. 6.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	70.03	70.14	70.24	69.16	68.94	67.85	67.21	68.42	70.64	73.63	76.21	77.09
10	69.95	70.18	70.25	69.06	69.14	67.55	67.37	68.83	71.16	74.14	76.57	76.25
15	70.16	70.29	69.56	68.55	69.17	67.33	67.45	69.29	71.62	74.52	76.73	74.99
20	70.54	70.11	69.33	68.62	69.17	67.65	67.99	69.88	72.12	74.98	76.25	73.81
25	70.65	70.46	69.22	68.57	68.83	67.87	67.91	69.88	72.61	75.37	76.75	73.26
EOM	70.17	70.56	69.24	68.93	68.27	67.87	68.30	70.18	73.14	75.85	76.96	72.71
MAX	70.74	70.61	70.46	69.35	69.25	68.11	68.30	70.21	73.14	75.85	76.96	77.14

MARSHALL COUNTY

342022086183401. Local number, Mal-2.
Location.--Lat 34°20'22", long 86°18'34", Hydrologic Unit 06030001, in NE¼ sec. 15, T. 8 S., R. 3 E., at Boaz Spinning Mills plant, Guntersville.
Owner: Boaz Spinning Mills.
AQUIFER.--Fort Payne Chert of Early Mississippian age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (15 cm), depth 130 ft (40. m), cased to 124 ft (38 m), open hole below.
DATUM.--Altitude of land-surface datum is 610 ft (186 m). Measuring point: Top of casing, 2.10 ft (0.64 m) above land-surface datum.
REMARKS.--Water levels affected by pumping of nearby wells and stage of Guntersville Lake.
PERIOD OF RECORD.--February 1962 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 11.00 ft (3.35 m) below land-surface datum, Apr. 17, 24, 1977; lowest, 19.6 ft (6.0 m) below land-surface datum, Nov. 23, 1964.
EXTREMES FOR CURRENT YEAR.--Highest water level, 11.00 ft (3.35 m) below land-surface datum, Apr. 17, 24; lowest, 17.08 ft (5.21 m) below land-surface datum, Oct. 26.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	16.22	15.97	15.02	14.82	14.52	14.62	12.33	12.69	11.97	---	15.30	---
10	16.22	15.76	15.30	14.46	14.32	14.36	12.32	12.70	12.90	14.12	15.20	---
15	16.30	15.98	15.12	14.98	14.84	13.42	11.67	12.36	13.50	14.22	14.80	---
20	16.37	15.40	15.26	14.26	15.18	13.81	12.48	13.81	13.24	14.33	---	---
25	16.26	15.44	14.88	14.23	14.86	14.12	12.06	12.78	13.90	14.34	---	---
EOM	16.10	16.12	14.92	14.30	14.72	12.92	12.42	12.18	---	14.57	---	---
MAX	16.37	16.12	15.30	14.98	15.18	14.62	12.48	13.81	13.90	14.57	---	---

MARSHALL COUNTY

342455086160201. Local number, Mal-1.
LOCATION.--Lat 34°24'55", long 86°16'02", Hydrologic Unit 06030001, in SE¼ sec. 24, T. 7 S., R. 3 W., at U.S. Highway 431 and 5.0 mi (8.0 km) northeast of Guntersville.
Owner: Kayo Oil Co.
AQUIFER.--Chickamauga Limestone of Middle and Late Ordovician age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (15 cm), depth 71 ft (22 m), cased to 20 ft (6 m), open hole below.
DATUM.--Altitude of land-surface datum is 605 ft (184 m). Measuring point: Top of casing, 0.50 ft (0.15 m) above land-surface datum.
REMARKS.--Water levels affected by stage of Guntersville Lake.
PERIOD OF RECORD.--August 1961 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.5 ft (1.1 m) below land-surface datum, Mar. 20, 1970; lowest, 39.07 ft (11.91 m) below land-surface datum, Nov. 22, 1961.
EXTREMES FOR CURRENT YEAR.--Highest water level, 4.64 ft (1.41 m) below land-surface datum, Jan. 9; lowest, 8.86 ft (2.70 m) below land-surface datum, Aug. 4.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	6.30	6.07	5.83	5.85	6.35	---	---	5.91	6.59	6.89	8.29	8.56
10	6.14	6.45	6.02	5.03	---	---	5.22	6.46	7.09	7.47	8.06	6.07
15	6.39	5.91	5.51	5.36	---	---	5.45	6.78	7.12	7.84	7.43	6.18
20	6.70	6.09	5.88	5.98	---	---	5.51	7.16	6.76	7.92	7.23	6.23
25	6.34	6.27	5.92	5.84	---	---	5.22	6.50	7.07	8.19	7.64	6.56
EOM	5.58	5.40	5.79	6.14	---	---	5.47	6.85	7.13	8.65	8.22	5.47
MAX	6.70	6.48	6.04	6.16	6.41	---	5.53	7.23	7.31	8.65	8.86	8.63

MOBILE COUNTY

304819088041501. Local number, Mob-2.
LOCATION.--Lat 30°48'19", long 88°04'15", Hydrologic Unit 03160204, in NW¼ sec. 10, T. 3 S., R. 1 W., at U.S. Highway 43 and 1.4 mi (2.3 km) south of Saraland.
Owner: City of Saraland.
AQUIFER.--Sand and gravel of alluvial deposits of Quaternary age.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 12 in (30 cm), depth 138 ft (42 m), screened 108 to 138 ft (33 to 42 m).
DATUM.--Altitude of land-surface datum is 19 ft (6 m). Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--August 1967 to April 1974 (periodic only), December 1975 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 13.83 ft (4.22 m) below land-surface datum, Apr. 7, 1976; lowest, 19.33 ft (5.89 m) below land-surface datum, Aug. 3, 1967.
EXTREMES FOR CURRENT YEAR.--Highest water level, 14.31 ft (4.36 m) below land-surface datum, Apr. 12; lowest, 17.64 ft (5.38 m) below land-surface datum, Oct. 27, 28.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	17.30	17.45	17.10	---	15.92	16.00	14.93	14.76	15.60	16.43	16.48	15.70
10	17.34	17.54	17.02	---	15.95	16.12	14.53	15.01	15.93	16.20	16.18	15.58
15	17.35	17.56	16.81	---	16.01	15.71	14.92	15.12	16.13	16.44	---	15.60
20	17.55	17.42	16.72	---	16.14	15.34	15.03	15.45	16.16	16.46	---	15.22
25	17.45	17.59	---	---	16.00	15.29	14.63	15.46	16.36	16.68	15.63	15.10
EOM	17.31	17.35	---	15.97	16.18	15.05	14.94	15.49	16.30	16.48	15.59	15.14
MAX	17.64	17.62	17.34	15.97	16.19	16.25	15.21	15.59	16.40	16.73	16.51	15.85

MOBILE COUNTY

305743088010301. Local number, Mob-1.
LOCATION.--Lat 30°57'43", long 88°01'03", Hydrologic Unit 03160204, in NW¼ sec. 18, T. 1 S., R. 1 E., at Courtaulds, Inc. plant, 0.6 mi (1.0 km) east of U.S. Highway 43, and 8.7 mi (14.0 km) south of Mount Vernon.
Owner: Courtaulds, Inc.
AQUIFER.--Sand and gravel of Pliocene(?) and Miocene age.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 12 in (30 cm), depth 123 ft (37 m), screened 105 to 123 ft (32 to 37 m).
DATUM.--Altitude of land-surface datum is 43.1 ft (13.1 m). Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.
REMARKS.--Water levels affected by pumping of nearby wells.
PERIOD OF RECORD.--September 1954 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 38.43 ft (11.71 m) below land-surface datum, Nov. 18, 1961; lowest, 55.52 ft (16.92 m) below land-surface datum, Aug. 15, 16, 1969.
EXTREMES FOR CURRENT YEAR.--Highest water level, 49.29 ft (15.02 m) below land-surface datum, Oct. 1; lowest, 52.89 ft (16.12 m) below land-surface datum, Sept. 18, 19, 20.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	49.38	49.83	50.33	50.82	51.20	51.45	51.71	51.76	51.13	51.80	52.12	52.64
10	49.47	49.91	50.43	50.86	51.30	51.48	51.76	51.35	50.94	52.17	51.30	52.78
15	49.54	49.96	50.50	50.91	51.27	51.46	51.75	50.51	50.80	52.32	51.64	52.85
20	49.66	49.98	50.58	51.06	51.32	51.55	51.73	49.95	50.77	52.45	52.01	52.89
25	49.69	50.07	50.69	51.11	51.33	51.65	51.73	50.47	51.24	52.57	52.29	52.79
EOM	49.77	50.20	50.76	51.18	51.40	51.72	51.75	51.06	51.64	52.70	52.54	52.87
MAX	49.77	50.20	50.76	51.18	51.40	51.72	51.76	51.77	51.64	52.70	52.71	52.89

MONROE COUNTY

313120087202501. Local number, Mon-3.
LOCATION.--Lat 31°31'20", long 87°20'25", Hydrologic Unit 03150204, in NW¼ sec, 2, T. 6 N., R. 7 E., at Monroeville Golf Course, Monroeville.
Owner: Monroeville American Legion Club.
AQUIFER.--Sand and gravel of Miocene and Pliocene age and limestone of Eocene and Oligocene age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (15 cm), depth 128 ft (39 m), cased to 88 ft (27 m), open hole below.
DATUM.--Altitude of land-surface datum is 408 ft (124 m). Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--January 1953 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 51.14 ft (15.59 m) below land-surface datum, May 9, 1961; lowest, 65.54 ft (19.98 m) below land-surface datum, March 7, 15, 1956.
EXTREMES FOR CURRENT YEAR.--Highest water level, 56.44 ft (17.20 m) below land-surface datum, May 19; lowest, 60.07 ft (18.31 m) below land-surface datum, Feb. 27, 28.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	56.76	57.88	58.79	59.49	59.86	59.96	---	56.59	56.67	57.26	58.00	58.12
10	56.95	58.00	58.92	59.63	59.91	59.57	---	56.51	56.77	57.40	57.97	58.21
15	57.10	58.18	59.03	59.66	59.96	59.02	---	56.49	56.86	57.51	57.97	58.30
20	57.31	58.33	59.17	59.71	60.02	58.77	56.97	56.49	56.94	57.63	57.96	58.36
25	57.46	58.51	59.24	59.75	60.05	58.33	56.84	56.50	57.05	57.76	58.02	58.44
EOM	57.70	58.69	59.40	59.80	60.07	---	56.73	56.62	57.16	57.93	58.07	58.56
MAX	57.70	58.69	59.40	59.80	60.07	60.05	56.97	56.72	57.16	57.93	58.07	58.56

MONTGOMERY COUNTY

322040086232501. Local number, Mtg-4.
LOCATION.--Lat 32°20'40", long 86°23'25", Hydrologic Unit 03150201, in SW¼ sec. 20, T. 16 .., R. 17 E., at County Road 54, 1.0 mi (1.6 km) southwest of intersection with U.S. Highway 31, and 6.0 mi (9.6 km) southwest of Montgomery.
Owner: City of Montgomery.
AQUIFER.--Sand of Gordo Formation of Late Cretaceous age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (15 cm), depth 446 ft (136 m), screened 408 to 413 ft (124 to 126 m), 424 to 429 ft (129 to 131 m), 441 to 446 ft (134 to 136 m).
DATUM.--Altitude of land-surface datum is 152.8 ft (46.6 m). Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.
REMARKS.--Water levels affected by pumping of nearby wells.
PERIOD OF RECORD.--March 1953 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 41.9 ft (12.8 m) below land-surface datum, Feb. 5, 1968; lowest, 135.1 ft (41.2 m) below land-surface datum, Oct. 2, 3, 1955.
EXTREMES FOR CURRENT YEAR.--Highest water level, 82.34 ft (25.10 m) below land-surface datum, Mar. 23; lowest, 103.02 ft (31.40 m) below land-surface datum, July 11.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	99.66	95.66	94.01	85.74	90.22	88.23	85.53	89.88	91.78	99.17	98.64	100.05
10	96.52	93.61	94.29	85.71	90.24	88.77	87.50	90.61	92.27	102.02	97.71	96.95
15	94.96	92.00	91.60	89.93	87.35	88.44	87.32	90.94	99.76	102.29	96.48	96.79
20	95.66	89.90	88.59	91.72	87.18	85.87	85.55	95.55	97.75	101.34	95.60	96.22
25	96.24	90.89	86.21	90.61	89.82	85.34	84.81	92.64	98.22	101.76	98.52	93.70
EOM	97.39	92.16	87.13	91.97	88.58	86.55	87.93	90.85	101.78	100.07	99.49	92.70
MAX	99.77	97.19	94.29	92.13	92.77	89.24	88.84	95.99	101.94	103.02	100.00	100.54

MONTGOMERY COUNTY

322047086214301. Local number, Mtg-3.
LOCATION.--Lat 32°20'47", long 86°21'43", Hydrologic Unit 03150201, in SE¼ sec. 21, T. 16 N., R. 17 E., at Lomax School on Hayneville Road, 0.5 mi (0.8 km) northeast of intersection with U.S. Highway 31, and 4.5 mi (7.2 km) southwest of Montgomery.
Owner: County of Montgomery.
AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (15 cm), depth 270 ft (82 m), screened 210 to 215 ft (64 to 66 m), 220 to 225 ft (67 to 69 m), 265 to 270 ft (81 to 82 m).
DATUM.--Altitude of land-surface datum is 167.2 ft (51.0 m). Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.
REMARKS.--Water levels affected by pumping of nearby wells.
PERIOD OF RECORD.--August 1952 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 11.9 ft (3.6 m) below land-surface datum, Mar. 17, 1968; lowest, 31.3 ft (9.5 m) below land-surface datum, Oct. 1, 1955.
EXTREMES FOR CURRENT YEAR.--Highest water level, 15.24 ft (4.65 m) below land-surface datum, Apr. 4; lowest, 22.79 ft (6.95 m) below land-surface datum, Oct. 29.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	21.25	21.89	22.36	20.12	19.46	17.53	15.51	18.81	20.38	21.90	22.01	22.52
10	21.70	21.92	22.34	19.43	19.42	16.52	16.20	19.42	20.34	22.03	21.47	21.78
15	21.85	22.16	21.59	19.02	19.00	16.09	16.63	19.71	21.52	22.48	21.69	21.73
20	22.10	22.05	21.08	18.96	18.90	16.10	16.93	20.33	21.66	22.62	21.74	21.60
25	22.38	22.12	20.83	19.34	18.70	16.09	17.14	20.29	21.58	22.71	21.94	21.30
EOM	22.67	22.01	20.39	19.42	18.32	16.02	18.22	20.14	22.05	22.53	22.24	21.04
MAX	22.79	22.54	22.36	20.41	19.55	17.98	18.22	20.57	22.05	22.72	22.51	22.52

MONTGOMERY COUNTY

322121086232701. Local number, Mtg-2.
LOCATION.--Lat 32°21'21", long 86°23'27", Hydrologic Unit 03150201, in NW¼ sec. 20, T. 16 N., R. 17 E., at Hunter Loop Road, 1.2 mi (1.9 km) northwest of intersection with U.S. Highway 31, and 5.5 mi (8.9 km) southwest of Montgomery.
Owner: City of Montgomery.
AQUIFER.--Sands of Eutaw Formation and Tuscaloosa Group of Late Cretaceous age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 18 in (46 cm), depth 670 ft (204 m), screened 208 to 218 ft (63 to 66 m), 232 to 242 ft (71 to 74 m), 330 to 350 ft (101 to 107 m), 376 to 386 ft (115 to 118 m), 403 to 418 ft (123 to 127 m), 605 to 620 ft (184 to 189 m), 650 to 670 ft (198 to 204 m).
DATUM.--Altitude of land-surface datum is 161.5 ft (49.2 m). Measuring point: Top of casing, 1.20 ft (0.37 m) above land-surface datum.
REMARKS.--Water levels affected by pumping of nearby wells.
PERIOD OF RECORD.--November 1951 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 52.0 ft (15.8 m) below land-surface datum, Mar. 18, 1968; lowest, 128.1 ft (39.0 m) below land-surface datum, Oct. 2, 3, 1955.
EXTREMES FOR CURRENT YEAR.--Highest water level, 81.20 ft (24.70 m) below land-surface datum, Apr. 25; lowest, 112.20 ft (34.20 m) below land-surface datum, July 18.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	91.80	88.60	84.50	---	85.10	82.70	88.50	93.30	110.10	110.00	---
10	90.50	88.70	88.50	83.80	86.60	84.90	83.10	89.60	96.40	109.90	108.30	---
15	90.00	88.00	87.50	86.30	83.40	84.70	83.00	91.60	107.00	111.40	100.30	---
20	98.50	86.20	85.20	92.50	83.80	82.70	81.30	94.60	108.60	111.90	---	---
25	102.50	86.10	82.70	88.10	86.90	82.00	81.80	94.50	107.80	111.90	---	---
EOM	100.90	87.80	85.20	---	86.40	82.70	85.40	92.90	110.30	111.10	---	---
MAX	102.50	91.80	88.60	92.50	86.90	85.10	85.40	94.60	110.30	111.90	---	---

MONTGOMERY COUNTY

322455086140501. Local number, Mtg-5.
LOCATION.--Lat 32°24'55", long 86°14'05", Hydrologic Unit 03150201, in NW¼ sec. 35, T. 17 N., R. 18 E., at Gunter Air Force Base, on U.S. Highway 231, and 4.7 mi (7.6 km) northeast of Montgomery.
Owner: U.S. Air Force.
AQUIFER.--Sand of Gordo Formation of Late Cretaceous age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in (20 cm), depth 232 ft (71 m), screened 215 to 232 ft (66 to 71 m).
DATUM.--Altitude of land-surface datum is 220.8 ft (67.3 m). Measuring point: Top of casing, 1.80 ft (0.55 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--January 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 82.78 ft (25.23 m) below land-surface datum, Mar. 29, 1972; lowest, 116.97 ft (35.65 m) below land-surface datum, Sept. 16, 24, 1963.
EXTREMES FOR CURRENT YEAR.--Highest water level, 85.96 ft (26.20 m) below land-surface datum, Apr. 25, May 4, 5, 8, 9; lowest, 90.36 ft (27.54 m) below land-surface datum, Sept. 28, 29, 30.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	86.47	87.20	87.48	87.41	87.24	87.17	86.69	86.00	86.72	88.02	89.19	89.96
10	86.59	87.24	87.53	87.39	87.28	87.12	86.60	86.04	86.98	88.28	89.41	90.05
15	86.68	87.29	87.37	87.30	87.25	87.03	86.36	86.16	87.21	88.47	89.53	90.17
20	86.87	87.33	87.44	87.34	87.24	87.01	86.20	86.27	87.38	88.66	89.58	90.14
25	86.91	87.48	87.47	87.24	87.12	86.93	85.98	86.36	87.53	88.85	89.76	90.28
EOM	87.04	87.44	87.44	87.27	87.22	86.76	86.04	86.51	87.84	89.04	89.90	90.36
MAX	87.08	87.49	87.54	87.48	87.30	87.24	86.73	86.51	87.84	89.04	89.90	90.36

MORGAN COUNTY

343425086550001. Local number, Mor-4.
LOCATION.--Lat 34°34'25", long 86°55'00", Hydrologic Unit 06030002, in SE¼ sec. 26, T. 5 S., R. 4 W. at Wheeler Wildlife Refuge, on southwest bank of Wheeler Lake (Tennessee River), and 4.2 mi (6.8 km) southeast of Decatur.
Owner: U.S. Fish and Wildlife Service.
AQUIFER.--Fort Payne Chert and Tuscumbia Limestone of Early and Late Mississippian age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in (20 cm), depth 301 ft (92 m), cased to 148 ft (45 m), open hole below.
DATUM.--Altitude of land-surface datum is 624 ft (190 m). Measuring point: Top of casing, 0.60 ft (0.18 m) above land-surface datum.
REMARKS.--Water levels affected by stage of Wheeler Lake.
PERIOD OF RECORD.--August 1961 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 59.60 ft (18.17 m) below land-surface datum, Mar. 16, 1975; lowest, 72.88 ft (22.21 m) below land-surface datum, Sept. 24, 25, 1961.
EXTREMES FOR CURRENT YEAR.--Highest water level, 60.26 ft (18.37 m) below land-surface datum, Apr. 7, 8; lowest, 71.39 ft (21.76 m) below land-surface datum, Nov. 28.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	67.49	---	68.94	67.93	67.84	64.42	62.48	63.66	65.23	67.69	---	---
10	67.49	---	69.57	66.12	68.19	65.22	62.24	63.91	65.90	67.95	---	---
15	67.49	---	69.05	65.71	68.54	63.05	63.39	64.52	66.13	67.80	---	---
20	67.49	---	69.15	66.94	69.05	65.75	63.54	64.94	66.85	68.07	---	---
25	---	71.32	68.83	67.02	68.00	66.69	62.83	64.44	66.99	68.28	---	---
EOM	---	68.74	67.77	67.42	66.53	66.29	63.33	64.93	67.13	---	---	---
MAX	67.49	71.39	69.58	67.93	69.30	66.91	65.82	64.98	67.32	68.28	---	---

MORGAN COUNTY

343604086574201. Local number, Mor-3.
LOCATION.--Lat 34°36'04", long 86°57'42", Hydrologic Unit 06030002, in NW¼ sec. 21, T. 5 S., R. 4 W., at City of Decatur water filter plant and on southwest bank of Wheeler Lake (Tennessee River), Decatur. Owner: City of Decatur.
AQUIFER.--Fort Payne Chert of Early Mississippian age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (15 cm), depth 295 ft (90 m), cased to 23 ft (7 m), open hole below.
DATUM.--Altitude of land-surface datum is 570 ft (174 m). Measuring point: Top of casing, 0.60 ft (0.18 m) above land-surface datum.
REMARKS.--Water levels affected by stage of Wheeler Lake.
PERIOD OF RECORD.--August 1961 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.30 ft (2.22 m) below land-surface datum, Mar. 20, 1973; lowest, 17.25 ft (5.26 m) below land-surface datum, Sept. 17, 1961.
EXTREMES FOR CURRENT YEAR.--Highest water level, 9.36 ft (2.85 m) below land-surface datum, Apr. 7; lowest, 16.12 ft (4.91 m) below land-surface datum, Feb. 7.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.90	14.93	15.31	15.74	15.95	13.18	11.23	11.13	11.22	12.00	11.52	12.95
10	14.21	15.29	15.58	14.47	15.89	12.91	11.11	10.98	11.53	12.09	12.12	13.08
15	14.25	15.25	15.13	13.78	15.71	11.12	12.17	11.19	11.38	11.72	12.57	13.29
20	14.34	15.54	15.38	15.50	15.80	13.78	11.60	11.29	11.80	11.89	12.16	13.15
25	14.66	15.40	15.18	15.53	15.07	15.26	10.85	11.07	11.53	12.05	12.90	13.61
EOM	14.26	15.13	15.42	15.58	14.33	14.66	11.18	11.41	11.72	11.82	13.13	13.59
MAX	14.86	15.68	15.58	15.76	16.12	15.32	13.94	11.41	12.06	12.12	13.29	13.61

PICKENS COUNTY

331107088180301. Local number, P-25 (USCE GW 21A).
LOCATION.--Lat 33°11'07", long 88°18'03", Hydrologic Unit 03160106, in SW¼ sec. 34, T. 21 S., R. 17 W., at west side of dirt road, 1.8 mi (2.9 km) east of Sardis Church in Mississippi, 0.7 mi (1.1 km) west of Big Creek cutoff (Tombigbee River), and 3.5 mi (5.6 km) southwest of Pickensville. Owner: U.S. Corps of Engineers.
AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 4 in (10 cm), depth 137 ft (42 m), screened 117 to 137 ft (36 to 42 m).
DATUM.--Altitude of land-surface datum is 139.8 ft (42.6 m). Measuring point: Top of casing, 1.70 ft (0.52 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--June 1975 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.62 ft (0.80 m) below land-surface datum, Mar. 10, 1977; lowest, 5.75 ft (1.75 m) below land-surface datum, Sept. 4, 5, 1977.
EXTREMES FOR CURRENT YEAR.--Highest water level, 2.62 ft (0.80 m) below land-surface datum, Mar. 10; lowest, 5.75 ft (1.75 m) below land-surface datum, Sept. 4, 5.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.45	5.43	---	4.95	4.78	4.71	4.21	4.54	5.12	5.59	5.41	5.75
10	5.37	5.43	---	4.82	4.83	2.84	3.95	4.62	5.25	5.59	5.50	5.35
15	5.41	5.35	---	4.70	4.84	3.64	4.32	4.75	5.35	5.51	5.58	5.27
20	5.45	---	5.13	4.75	4.87	4.35	4.43	4.87	5.29	5.57	5.59	---
25	5.41	---	5.12	4.67	4.77	4.37	4.35	4.97	5.39	5.60	5.64	---
EOM	5.40	---	4.98	4.75	4.78	4.43	4.49	5.00	5.49	5.36	5.72	---
MAX	5.46	5.45	5.16	4.99	4.87	4.79	4.49	5.09	5.49	5.62	5.72	5.75

PICKENS COUNTY

331107088180302. Local number, P-26 (USCE GW 21B).
LOCATION.--Lat 33°11'07", long 88°18'03", Hydrologic Unit 03160106, in SW¼ sec. 34, T. 21 S., R. 17 W., at west side of dirt road, 1.8 mi (2.9 km) east of Sardis Church in Mississippi, 0.7 mi (1.1 km) west of Big Creek cutoff (Tombigbee River), and 3.5 mi (5.6 km) southwest of Pickensville.
Owner: U.S. Corps of Engineers.
AQUIFER.--Sand of alluvial deposits of Quaternary age.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 4 in (10 cm), depth 14 ft (4 m), screened 9 to 14 ft (3 to 4 m).
DATUM.--Altitude of land-surface datum is 139.8 ft (42.6 m). Measuring point: Top of casing, 2.00 ft (0.61 m) above land-surface datum.
REMARKS.--Under artesian conditions during periods of high stage of Tombigbee River.
PERIOD OF RECORD.--June 1975 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.09 ft (0.02 m) above land-surface datum, Mar. 31, 1976; lowest, 11.16 ft (3.40 m) below land-surface datum, Dec. 24, 25, 1976.
EXTREMES FOR CURRENT YEAR.--Highest water level, 0.86 ft (0.26 m) below land-surface datum, Apr. 5; lowest, 11.16 ft (3.40 m) below land-surface datum, Dec. 24, 25.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.52	10.89	11.11	11.02	10.12	8.89	1.09	4.52	7.87	9.27	---	---
10	10.56	10.94	11.13	10.71	10.02	8.35	2.62	5.28	8.19	9.46	---	---
15	10.63	10.97	11.12	10.46	9.93	7.05	3.77	6.10	8.48	9.57	---	---
20	10.71	11.01	11.15	10.50	9.85	6.16	4.85	6.85	8.68	---	---	---
25	10.78	11.05	11.16	10.29	9.64	5.41	2.59	7.29	8.84	---	---	---
EOM	10.84	11.07	11.05	10.23	9.45	4.97	4.05	7.68	9.06	---	---	---
MAX	10.84	11.07	11.16	11.05	10.21	9.45	4.95	7.68	9.06	9.62	---	---

PICKENS COUNTY

331350088161902. Local number, P-22 (USCE 124B).
LOCATION.--Lat 33°13'50", long 88°16'19", Hydrologic Unit 03160106, in SW¼ sec. 13, T. 21 S., R. 17 W., at Pickensville boat landing, 0.10 mi (0.16 km) east of Tombigbee River, and 0.4 mi (0.6 km) northwest of Pickensville.
Owner: U.S. Corps of Engineers.
AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 4 in (10 cm), depth 66 ft (20 m), screened 61 to 66 ft (19 to 20 m).
DATUM.--Altitude of land-surface datum is 159.96 ft (48.76 m). Measuring point: Top of casing, 1.50 ft (0.46 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--September 1972 to February 1973 (periodic only), March 1973 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 19.60 ft (5.97 m) below land-surface datum, Mar. 24, 1973; lowest, 47.08 ft (14.35 m) below land-surface datum, Sept. 5, 6, 1977.
EXTREMES FOR CURRENT YEAR.--Highest water level, 23.82 ft (7.26 m) below land-surface datum, Mar. 14; lowest, 47.08 ft (14.35 m) below land-surface datum, Sept. 5, 6.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	46.46	45.20	44.23	43.11	43.28	36.38	33.28	42.44	44.89	46.34	45.70	47.08
10	46.12	45.94	44.92	40.91	43.94	25.87	25.50	42.26	45.50	46.44	46.24	46.27
15	46.40	45.98	42.18	34.54	43.93	24.01	33.43	43.55	45.83	45.77	46.66	46.42
20	46.54	45.89	43.95	38.34	44.29	27.55	40.12	44.35	45.62	45.95	46.71	46.03
25	46.44	45.94	43.23	40.93	43.04	37.49	37.45	44.88	45.72	46.28	46.60	46.18
EOM	45.44	44.62	41.54	42.05	39.07	39.33	40.90	44.87	46.03	45.27	46.92	44.54
MAX	46.58	46.05	44.97	43.12	44.49	39.86	40.90	44.97	46.03	46.51	46.92	47.08

ST. CLAIR COUNTY

333525086163701. Local number, Stc-1.
LOCATION.--Lat 33°35'25", long 86°16'37", Hydrologic Unit 03150106, in NE¼ sec. 1, T. 17 S., R. 3 E., at U.S. Highway 78 and 0.25 mi (0.40 km) northeast of intersection with U.S. Highway 231, Pell City.
Owner: Avondale Mills.
AQUIFER.--Maury Formation, Fort Payne Chert, and Floyd Shale of Early and Late Mississippian age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10 in (25 cm), depth 209 ft (64 m), casing depth unknown, open hole below casing.
DATUM.--Altitude of land-surface datum is 548 ft (167 m). Measuring point: Top of casing, 1.50 ft (0.46 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--March 1962 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1.50 ft (0.46 m) above land-surface datum, Mar. 16, 31, 1976; lowest, 9.2 ft (2.8 m) below land-surface datum, Nov. 20, 1965.
EXTREMES FOR CURRENT YEAR.--Highest water level, 1.42 ft (0.43 m) above land-surface datum, Mar. 21; lowest, 7.42 ft (2.26 ft) below land-surface datum, Oct. 24, 25.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	-6.94	-7.12	-4.68	-1.09	-1.95	.00	---	-3.24	-5.27	-5.99	-5.91	-6.90
10	7.02	7.37	4.00	+0.49	2.41	-0.33	---	3.85	5.71	6.42	6.33	6.52
15	7.14	6.16	2.06	+0.07	2.35	+0.02	-1.62	4.48	6.11	6.64	6.65	6.42
20	7.30	6.32	2.45	-1.10	2.64	-1.05	2.42	4.95	6.14	6.76	6.75	5.22
25	7.42	6.63	2.17	0.42	-0.04	---	1.91	4.64	5.35	6.62	6.50	5.62
EOM	-6.82	-3.85	-1.51	-1.27	+0.14	---	-2.72	-4.64	-5.76	-5.55	-6.71	-4.74
MAX	-7.42	-7.39	-4.71	-1.86	-2.76	-1.09	-2.72	-5.05	-6.23	-6.82	-6.85	-6.93

SUMTER COUNTY

325215088111301. Local number, F-10 (USCE 132A).
LOCATION.--Lat 32°52'15", long 88°11'13", Hydrologic Unit 03160106, in SW¼ sec. 22, T. 22 N., R. 2 W., at north side of dirt road, 1.0 mi (1.6 km) east of Springhill Church, 0.35 mi (0.56 km) east of Tombigbee River, and 3.7 mi (6.0 km) northwest of Gainesville.
Owner: U.S. Corps of Engineers.
AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 4 in (10 cm), depth 370 ft (113 m), slotted 350 to 370 ft (107 to 113 m).
DATUM.--Altitude of land-surface datum is 162.82 ft (49.63 m). Measuring point: Top of casing, 2.00 ft (0.61 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--October 1972 to March 1973 (periodic only), March 1973 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 34.18 ft (10.42 m) below land-surface datum, Mar. 27, 1973; lowest, 39.12 ft (11.92 m) below land-surface datum, Nov. 7, 1974.
EXTREMES FOR CURRENT YEAR.--Highest water level, 36.34 ft (11.08 m) below land-surface datum, Mar. 17, 18; lowest, 38.98 ft (11.88 m) below land-surface datum, Sept. 2, 3, 5.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	38.75	38.78	38.57	38.29	38.13	37.62	37.15	37.86	38.43	38.79	38.62	38.98
10	38.72	38.77	38.59	38.10	38.19	37.04	36.46	37.96	38.52	38.79	38.71	38.75
15	38.73	38.70	38.41	37.69	38.16	36.44	36.80	38.09	38.61	38.76	38.80	38.78
20	38.81	38.67	38.44	37.76	38.12	36.57	37.53	38.21	38.63	38.79	38.82	38.77
25	38.78	38.70	38.39	37.94	38.01	37.15	37.50	38.29	38.64	38.83	38.89	38.81
EOM	38.76	38.65	38.24	38.06	37.88	37.49	37.76	38.36	38.72	38.65	38.95	38.74
MAX	38.83	38.82	38.62	38.30	38.19	37.82	37.76	38.36	38.72	38.84	38.95	38.98

TALLADEGA COUNTY

310210861505 01. Local number, Tal-2.
LOCATION.--Lat 33°10'21", long 86°15'05", Hydrologic Unit 03150107, in SW¼ sec. 29, T. 21 S., R. 4 E., at 3rd Street and Norton Avenue, Sylacauga.
Owner: City of Sylacauga.
AQUIFER.--Marble.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (15 cm), depth 202 ft (62 m), cased to 69 ft (21 m), open hole below.
DATUM.--Altitude of land-surface datum is 546.4 ft (166.5 m). Measuring point: Top of casing, 0.50 ft (0.15 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--October 1954 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 11.1 ft (3.4 m) below land-surface datum, Mar. 30, 1959; lowest, 49.75 ft (15.16 m) below land-surface datum, Dec. 20, 1962.
EXTREMES FOR CURRENT YEAR.--Highest water level, 18.15 ft (5.53 m) below land-surface datum, Apr. 5; lowest, 46.40 ft (14.14 m) below land-surface datum, Sept. 9.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	44.03	---	---	35.19	25.73	25.93	18.48	31.47	39.52	44.45	---	45.35
10	44.05	---	---	29.27	27.11	25.81	20.65	32.97	41.39	45.08	---	46.31
15	44.48	43.39	36.19	24.61	30.66	22.05	22.94	34.67	41.89	43.93	43.65	43.90
20	44.92	43.67	37.85	25.11	33.16	23.88	25.12	36.31	42.09	43.11	43.71	38.92
25	---	43.82	38.21	24.36	27.81	22.25	25.95	35.86	42.56	43.97	44.82	40.09
EOM	---	41.01	35.97	25.28	25.77	18.93	31.24	37.99	43.76	---	45.49	40.62
MAX	44.92	43.83	38.21	36.74	34.13	26.71	34.17	37.99	43.76	45.19	45.49	46.40

TUSCALOOSA COUNTY

331045087342501. Local number, Tus-4.
LOCATION.--Lat 33°10'45", long 87°34'25", Hydrologic Unit 03160113, in NW¼ sec. 34, T. 21 S., R. 10 W., at dirt road, 0.2 mi (0.3 km) southeast of City Water Works Filter Plant South, and 1.0 mi (1.6 km) southwest of Greensboro Avenue, Tuscaloosa.
Owner: City of Tuscaloosa.
AQUIFER.--Sand of Coker Formation of Late Cretaceous age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (15 cm), depth 83 ft (25 m), screened 77 to 83 ft (23 to 25 m).
DATUM.--Altitude of land-surface datum is 160 ft (49 m). Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.
REMARKS.--Water levels affected by pumping of nearby wells.
PERIOD OF RECORD.--August 1962 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 17.64 ft (5.38 m) below land-surface datum, Apr. 1, 1976; lowest, 35.9 ft (10.9 m) below land-surface datum, Dec. 5, 1969.
EXTREMES FOR CURRENT YEAR.--Highest water level, 17.65 ft (5.38 m) below land-surface datum, Apr. 4, 5; lowest, 21.15 ft (6.45 m) below land-surface datum, Sept. 29.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	19.84	20.24	20.15	19.68	19.62	19.08	17.88	19.37	19.91	20.21	20.17	20.90
10	19.93	20.14	20.17	19.16	19.74	18.68	18.32	19.45	20.05	20.26	20.50	20.09
15	19.98	20.02	19.75	19.05	19.79	18.46	18.68	19.58	20.10	20.26	20.72	20.53
20	20.12	19.97	19.81	19.33	19.84	18.90	18.97	19.64	20.08	20.36	20.79	20.54
25	20.00	20.13	19.75	19.23	19.36	18.58	19.12	19.70	20.03	20.43	20.82	20.91
EOM	20.11	20.18	19.64	19.49	19.33	18.25	19.37	19.88	20.11	20.24	20.84	21.12
MAX	20.17	20.32	20.26	19.72	19.86	19.32	19.37	19.88	20.21	20.49	20.85	21.15

TUSCALOOSA COUNTY

331239087323601. Local number, Tus-1.
LOCATION.--Lat 33°12'39", long 87°32'36", Hydrologic Unit 03160112, in NE¼ sec. 23, T. 21 S., R. 10 W., at northeast corner of Smith Hall on University of Alabama campus, University.
Owner: University of Alabama.
AQUIFER.--Sand and gravel of Coker Formation of Late Cretaceous age.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 4 in (10 cm), depth 61 ft (19 m), screened 55 to 61 ft (17 to 19 m).
DATUM.--Altitude of land-surface datum is 230.1 ft (70.1 m). Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--January 1952 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 21.72 ft (6.62 m) below land-surface datum, June 1, 7, 8, 1976; lowest, 27.86 ft (8.49 m) below land-surface datum, Jan. 10, 11, 13, 1955.
EXTREMES FOR CURRENT YEAR.--Highest water level, 22.96 ft (7.00 m) below land-surface datum, Apr. 23, 24, 25; lowest, 25.37 ft (7.73 m) below land-surface datum, Jan. 10.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	24.29	24.80	25.16	25.33	24.95	25.02	23.89	23.11	23.71	24.22	24.66	25.04
10	24.37	24.84	25.20	25.37	24.95	24.87	23.46	23.22	23.81	24.30	24.72	25.07
15	24.47	24.93	25.22	25.19	24.97	24.72	23.14	23.33	23.90	24.40	24.76	25.12
20	24.57	24.98	25.27	25.09	25.00	24.51	23.02	23.41	23.98	24.45	24.82	25.14
25	24.66	25.03	25.29	25.03	25.04	24.33	22.98	23.50	24.07	24.53	24.89	25.21
EOM	24.74	25.13	25.33	24.97	25.08	24.13	23.04	23.64	24.15	24.61	24.98	25.23
MAX	24.74	25.13	25.33	25.37	25.08	25.05	24.08	23.64	24.15	24.61	24.98	25.23

TUSCALOOSA COUNTY

331340087381601. Local number, Tus-5.
LOCATION.--Lat 33°13'40", long 87°38'16", Hydrologic Unit 03160113, in NE¼ sec. 13, T. 21 S., R. 11 W., at Bryce Hospital Intermediate Care Facility, 0.4 mi (0.6 km) south of U.S. Highway 82, and 3.1 mi (5.0 km) southeast of Coker.
Owner: Bryce Hospital.
AQUIFER.--Sand of Coker Formation of Late Cretaceous age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (15 cm), depth 109 ft (33 m), screened 103 to 109 ft (31 to 33 m).
DATUM.--Altitude of land-surface datum is 157 ft (48 m). Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.
REMARKS.--Water levels affected by pumping of nearby wells.
PERIOD OF RECORD.--January 1964 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 19.22 ft (5.86 m) below land-surface datum, Apr. 6, 1976; lowest, 34.4 ft (10.5 m) below land-surface datum, Sept. 15, 1965.
EXTREMES FOR CURRENT YEAR.--Highest water level, 19.35 ft (5.90 m) below land-surface datum, Apr. 8; lowest, 23.68 ft (7.22 m) below land-surface datum, Nov. 29.

LOWEST WATER LEVEL FOR THE DAY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	23.08	23.46	23.51	22.83	22.40	22.23	20.46	21.50	22.32	23.02	23.20	23.55
10	23.11	23.40	23.64	22.76	22.40	21.45	20.17	21.79	22.54	23.10	23.33	---
15	23.26	23.58	23.25	22.17	22.51	20.97	20.47	21.90	22.56	23.15	23.29	---
20	23.29	23.50	---	22.19	22.55	21.42	21.03	22.05	22.63	23.15	23.34	---
25	23.27	23.55	22.94	22.24	22.55	21.42	21.15	22.09	22.74	23.29	23.37	---
EOM	23.40	23.63	22.99	22.40	22.59	21.44	21.37	22.22	22.96	23.28	23.42	---
MAX	23.42	23.68	23.64	22.98	22.65	22.42	21.42	22.44	22.96	23.32	23.48	23.59

INDEX

Page

Abbie Creek near Haleburg..... 31, 421
Acre-foot, definition of..... 4
Acuff Spring near Chase..... 343, 415-417
Adamsville, Village Creek near..... 194-195
Agricola, MS, Escatawpa River near..... 281
Alabama River at Claiborne..... 138-142
  at Claiborne lock and dam near Monroeville 136-137
  at Jones Bluff lock and dam near Benton... 103
  at Montgomery..... 92
  at Millers Ferry lock and dam near Camden. 133
  at Selma..... 107-109
  near Montgomery..... 93-100
Alexandria, McCullars Spring near..... 338
Allatoona reservoir..... 277, 279
Allen Spring near Valley Head..... 338
Angel, Seven Springs Creek near..... 338
Anniston, Coldwater Spring near..... 70
Apalachicola River basin, crest-stage
    partial-record stations in..... 335
  gaging station records in..... 29
Aquifer, definition of..... 4
Ardmore, Blowing Springs near..... 339
Ariton, Pea River near..... 37, 322
Arkadelphia, Mulberry Fork near..... 162
Ashland, Enitachopco Creek below..... 336
Ashville, Big Canoe Creek at..... 67
Ash weight, definition of..... 5
Athens, Limestone Creek near..... 334
Augustin, Oakmulgee Creek near..... 118-120

Bacteria, definition of..... 4
Barbee Creek near New Lexington..... 407
  near Samantha..... 407
Barren Fork Creek near Triana..... 418-420
Barrineau Park, Fla., Perdido River at..... 58-60
Bass, Crow Creek at..... 284, 285
Bates Creek near Sims Chapel..... 337
Batesville, South Fork Cowikee Creek near... 30, 421
Bear Creek at Bishop..... 317-319
  near Hackleburg..... 309-311
  near Red Bay..... 312, 425
  near Samantha..... 227-241
Benton, Alabama River at Jones Bluff lock
    and dam near..... 103
Berry Spring near Jamestown..... 338
Bessemer, Black Warrior River at Bankhead
    lock and dam near..... 198
  Valley Creek near..... 196, 424
Big Canoe Creek at Ashville..... 67
Big Nance Creek at Courtland..... 304-305
Big Sandy Spring near Hagler..... 342
Big Spring near Blountsville..... 339
Big Swamp Creek near Lowndesboro..... 104
  near Orrville..... 124-130, 424
Big Wills Creek near Crudup..... 66, 326-327
Billis Creek near Melvin..... 337
Biochemical oxygen demand, definition of.... 5
Biomass, definition of..... 5
Birmingham, Cahaba River at pump station
    near..... 348
  Valley Creek at 4th Street..... 340
  Village Creek at Appalachee Street in..... 332-333
  Village Creek at 86th Street..... 340
Bishop, Bear Creek at..... 317-319
Black Warrior River at Bankhead lock and
    dam near Bessemer..... 198
  at Holt lock and dam near Holt..... 206-207
  at Northport..... 244-246
  at Oliver lock and dam at Tuscaloosa..... 247
  at Warrior lock and dam near Eutaw..... 249
  below Warrior lock and dam near Eutaw..... 250
Blackwater River basin, gaging station
    records in..... 40
Blackwater River near Bradley..... 40
Blanch, Congo Spring near..... 409-411
Blountsville, Big Spring near..... 339
  Blue Spring near..... 339
Blowing Springs near Ardmore..... 343
  near Rogersville..... 343
Blue Pond, Little River near..... 61-62
Blue Creek near Oakman..... 200-205
  near Spencer Hill..... 340, 363
  near Windham Springs..... 349, 362
Blue Spring near Blountsville..... 339
Bluff Creek near Midway..... 335
Boiling Spring near Maysville..... 415-417
Bradley, Blackwater River near..... 40

Page

Brantley, Conecuh River at..... 45-47
  Patsaliga Creek near..... 48, 422
Brewton, Conecuh River at..... 53
Brier Fork Flint River above Beaverdam
    Creek near Meridianville..... 415-417
Brooklyn, Sepulga River near..... 52, 422
Brown Spring near Stevenson..... 343
Brush Creek near Eutaw..... 159
Butler, Tuckabum Creek near..... 337
Buttahatchee River below Hamilton..... 329, 349
  near Sulligent..... 330-331
Buzzard Roost Spring near Cherokee..... 344
Byrd Spring at Huntsville..... 418-420

Cahaba River at Centreville..... 115-117
  at pump station near Birmingham..... 348
  near Cahaba Heights..... 110
  near Helena..... 336
  near Marion Junction..... 121-123
  near West Blocton..... 114
Camden, Alabama River at Millers Ferry
    lock and dam near..... 133
Cane Creek near Heflin..... 336
Carrollton, Lubbub Creek near..... 351
  Lubbub Creek northeast of..... 339
  Lubbub Creek southeast of..... 339
Catoma Creek near Montgomery..... 101-102
Cave Spring near Decatur..... 343
Cedar Creek (tributary to Alabama River)
    at Minter..... 131-132
Cedar Creek (tributary to Bear Creek)
    near Pleasant Site..... 313-315
Cells/volume, definition of..... 5
Central, Paterson Creek near..... 77, 409-411, 423
Centreville, Cahaba River at..... 115-117
  Lightsey Spring near..... 339
Century, Fla., Escambia River near..... 57
Cfs-day, definition of..... 5
Chase, Acuff Spring near..... 343, 415-417
  Flint River near..... 290-293
Chattooga River above Gaylesville..... 323, 422
Cheaha Creek near Talladega..... 336
Cherokee, Buzzard Roost Spring near..... 344
Chickasaw Bogue near Linden..... 255-256
Chickasaw Creek near Kushla..... 275-276
Childersburg, Coosa River at..... 72-74
  Little Tallaseehatchee Creek near..... 339
  Tallaseehatchee Creek near..... 338
  Weewoka Creek near..... 339
Chlorophyll, definition of..... 5
Choccolocco Creek at Jackson Shoals near
    Lincoln..... 71, 328
Choctawhatchee River basin, crest-stage
    partial-record stations in..... 335
  flood-hydrograph partial-record stations
    in..... 322
  gaging-station records in..... 32-39
Choctawhatchee River near Geneva..... 36
  near Newton..... 32-35
Chubbahatchee Creek near Friendship..... 336
Claiborne, Alabama River at..... 138-142
Cleveland, Locust Fork near..... 168, 424
Coal Fire Creek near Pickensville..... 145, 350
Coatopa, Tombigbee River at Demopolis lock
    and dam near..... 251
  Tombigbee River below Demopolis lock and
    dam near..... 252
Cochrane, Tombigbee River near..... 146-149
Coffeeville, Satilpa Creek near..... 273-274
  Tombigbee River at Coffeeville lock and
    dam near..... 257-265
  Tombigbee River below Coffeeville lock
    and dam near..... 266-272
Coldwater Spring near Anniston..... 70
Columbiana, Waxahatchee Creek near..... 336
Conecuh River at Brantley..... 45-47
  at Brewton..... 53
  at River Falls..... 49
Congo Spring near Blanch..... 338, 409-411
Contents, definition of..... 5
Control, definition of..... 5
Cooperation..... 2
Coosa River at Childersburg..... 72-74
  at Gadsden..... 63-65, 325, 423
  at Jordan dam near Wetumpka..... 78-79
  at Wetumpka..... 80
Cordova, Mulberry Fork near..... 167

Page

Cotaco Creek at Florette..... 299-300
Cottonwood, Cowarts Creek near..... 335
Courtland, Big Nance Creek at..... 304-305
Cove Creek near Walnut Grove..... 339
Cowarts Creek near Cottonwood..... 335
Cripple Creek east of Samantha.....342, 395-396
near Samantha..... 342, 394
Crooked Creek near Morris..... 175-189
near Mt. Olive..... 340, 359
Crow Creek at Bass..... 284-285
Crudup, Big Wills Creek near..... 66, 326-327
Cubic foot per second, definition of..... 6
Cubic feet per second per square mile, definition of..... 5
Cypress Creek near Holt..... 341, 384

Decatur, Tennessee River at..... 301-302
Cave Spring near..... 343
Deer Park, Pond Creek near..... 425
Definition of terms..... 4
Dempsy, Elder Creek near..... 336
Discharge, definition of..... 6
Dissolved, definition of..... 6
Dog River basin, gaging station records in.. 280
Dothan, Kelly Spring near..... 409-411
Little Choctawhatchee Creek near..... 338
Little Choctawhatchee Creek northwest of.. 338
Newton Creek near..... 338
Downstream order and station numbers..... 10
Drainage area, definition of..... 6
Dry Branch near Samantha.....342, 388-392
Dry weight, definition of..... 5

East Bassett Creek at Walker Springs..... 337
Elder Creek near Dempsy..... 336
Elba, Pea River at..... 38
Elk River near Prospect, Tenn..... 303
Elliotts Creek near Moundville..... 248
Ellisville, Terrapin Creek at..... 324, 422
Enitachopco Creek below Ashland..... 336
Ensley, Village Creek at Ave. "W" in..... 193, 424
Escambia River basin, crest-stage partial-record stations in..... 335
gaging-station records in..... 42-57
Escambia River near Century, Fla..... 57
Escatawpa River near Agricola, Miss..... 281-282
Eutaw, Black Warrior River at Warrior lock and dam near..... 249
Black Warrior River below Warrior lock and dam near..... 250
Brush Creek near..... 159
Evergreen, Murder Creek near..... 54-55

Fadette, Grants Branch tributary near..... 335
Fecal coliform bacteria, definition of..... 4
Fecal streptococcal bacteria, definition of. 4
Fernbank, Mud Creek near..... 336
Fisk, Flint River above Stewart Branch near. 412-414
Fivemile Creek at Ketona..... 192, 424
Flat Rock Creek near Ider..... 412-414
Flint River above Stewart Branch near Fisk.. 412-414
near Chase..... 290-293
near Mt. Carmel.....294-295, 343
near Owens Cross Roads..... 415-417
west of Gurley..... 415-417
Florence, Tennessee River at..... 307-308
Florette, Cotaco Creek at..... 299-300
Fort Mitchell, Uchee Creek near..... 29, 421
Friendship, Chubbahatchee Creek near..... 336

Gadsden, Coosa River at..... 63-65, 325, 423
Gage height, definition of..... 6
Gaging stations, definition of..... 6
Gainsville, Tombigbee River at..... 151-158
Garden City, Mulberry Fork near..... 160-161
Gaylesville, Chattooga River above..... 323, 422
Geiger, Noxubee River near..... 353
Geneva, Choctawhatchee River near..... 36
Geraldine, Town Creek near..... 286-287
Germania Spring at Jacksonville..... 338
Grants Branch tributary near Fadette..... 335
Grayson, Sipsey Fork near..... 163-166
Greenville, Stallings Creek near..... 335
Greenwood, Shades Creek near..... 111-113
Ground-water data, explanation of..... 19
Ground-water records..... 429-454
Baldwin County
Bal-1..... 429
Bibb County
Bib-1..... 429

Page

Ground-water records--Continued
Bullock County
Bul-1..... 430
Butler County
But-3..... 430
But-2..... 431
But-4..... 431
Calhoun County
Cal-1..... 432
Clarke County
Cla-1..... 432
Colbert County
Col-1..... 433
Cullman County
Cul-1..... 433
Elmore County
Elm-1..... 434
Franklin County
Fra-1..... 434
Greene County
W-3..... 435
W-4..... 435
Gre-3..... 436
O-2..... 436
Hale County
Hal-1..... 437
Jackson County
Jac-2..... 437
Jefferson County
Jef-1..... 438
Lauderdale County
Lau-1..... 438
Lawrence County
Law-3..... 439
Law-2..... 439
Limestone County
Lim-4..... 440
Madison County
Mad-5..... 440
Mad-2..... 441
Mad-1..... 441
Mad-7..... 442
Mad-4..... 442
Marengo County
Mag-1..... 443
Mag-2..... 443
Marion County
Mar-1..... 444
Marshall County
Mal-4..... 444
Mal-1..... 445
Mal-2..... 445
Mobile County
Mob-2..... 446
Mob-1..... 446
Monroe County
Mon-3..... 447
Montgomery County
Mtg-4..... 447
Mtg-3..... 448
Mtg-2..... 448
Mtg-5..... 449
Morgan County
Mor-4..... 449
Mor-3..... 450
Pickens County
P-25..... 450
P-26..... 451
P-22..... 451
St. Clair County
Stc-1..... 452
Sumter County
F-10..... 452
Talladega County
Tal-2..... 453
Tuscaloosa County
Tus-4..... 453
Tus-1..... 454
Tus-5..... 454
Gulf Creek near Steele..... 338, 423
Guntersville Lake..... 320
Gurley, Flint River west of..... 415-417

Hackleburg, Bear Creek near..... 309-311
Hacoda, Panther Creek near..... 39, 421
Hagler, Big Sandy Spring near..... 342
Haleburg, Abbie Creek near..... 31, 421
Halltown, Little Bear Creek near..... 316
Hamilton, Buttahatchee River below..... 329, 349
Hannon Slough at Bear School at Montgomery. 423

Page

Hardness, definition of..... 6
Harvest, Kelly Spring near..... 415-417
Hatchet Creek near Rockford..... 75-76
Heflin, Cane Creek near..... 336
  Tallapoosa River near..... 81-82
Helena, Cahaba River near..... 336
Hester Creek near Plevna..... 412-414
H. Neely Henry reservoir..... 277, 279
Holt, Black Warrior River at Holt lock and
    dam near..... 206
  Cypress Creek near..... 341, 384
Horse Creek near Sweetwater..... 337
Hughes Spring near Florette..... 343
Huntsville, Byrd Spring at..... 418-420
  Tennessee River at pump station near..... 408
Huntsville Spring Branch above sewage
    plant near Huntsville..... 415-417
  at Dodd Road near Huntsville..... 418-420
  at Johnson Road at Huntsville..... 415-417
  at Martin Road near Huntsville..... 298, 343
  at Patton Road near Huntsville..... 418-420
Hydrologic bench-mark station, definition of 12
Hydrologic conditions..... 2
Hydrologic Unit, definition of..... 6

Ider, Flat Rock Creek near..... 412-414
Index..... 455
Indian Creek (tributary to Conecuh River)
    near Troy.....42-44, 422
Indian Creek (tributary to Tennessee River)
    near Madison..... 297, 425
Instantaneous discharge, definition of..... 6
Introduction..... 1
Iron City, Tenn., Shoal Creek at..... 306

Jacksonville, Germania Spring at..... 338
Jamestown, Berry Spring near..... 338
Johnson Branch near Utley..... 342, 393
Jones, Mulberry Creek at..... 105-106
Jordan Lake..... 278, 279
Judy Creek near Ozark..... 335

Kelly Spring near Dothan..... 409-411
  near Harvest..... 415-417
Ketona, Fivemile Creek at..... 192, 424
Kimberly, Spring Tributary to Turkey Creek
    near..... 357
  Tributary to Turkey Creek near..... 358
  Turkey Creek upstream from..... 172-174
Kimbrough, Turkey Creek at..... 134-135
Kirkland, Murder Creek at..... 56, 422
Kushla, Chickasaw Creek near..... 275-276

Lake Martin..... 277, 279
Lakes and reservoirs:
    Allatoona Reservoir..... 277, 279
    Guntersville Lake..... 320
    H. Neely Henry Reservoir..... 277, 279
    Jordan Lake..... 278, 279
    Lake Martin..... 278, 279
    Lay Lake..... 277, 279
    Lewis Smith Reservoir..... 278, 279
    Logan Martin Reservoir..... 277, 279
    Mitchell Lake..... 278, 279
    Weiss Reservoir..... 277, 279
    Wheeler Lake..... 320
    Wilson Lake..... 320
Land surface datum, definition of..... 7
Lay Lake..... 277, 279
Lewis Smith Reservoir..... 278, 279
Lightsey Spring near Centreville..... 339
Limestone Creek near Athens..... 334
Lincoln, Choccolocco Creek at Jackson
    Shoals near..... 71, 328
Linden, Chickasaw Bogue near..... 255-256
Little Bear Creek near Halltown..... 316
Little Choctawatchee Creek near Dothan..... 338
  northwest of Dothan..... 338
Little River (tributary to Alabama River)
    near Uriah..... 143-144
Little River (tributary to Coosa River)
    near Blue Pond..... 61-62
Little Tallapoosa River near Newell..... 83, 423
Little Tallaseehatchee Creek near Childers-
    burg..... 339
Little Tyro Creek near Sandtown..... 341, 385
Little Yellow Creek near Whitson..... 361
Livingston, Sucarnoochee River at..... 253-254
Locust Fork at Sayre..... 190-191
  near Cleveland..... 168, 424
Logan Martin Reservoir..... 277, 279

Page

Lowndesboro, Big Swamp Creek near..... 104
Loxley, Styx River near..... 335
Lubbub Creek at Reform..... 339
  near Carrollton..... 351
  northeast of Carrollton..... 339
  southeast of Carrollton..... 339

Madison, Indian Creek near.....297, 425
Majors Creek near Tensaw..... 336
Map of Alabama showing location of gaging
    stations in Alabama..... 26
  location of partial-record stations..... 321
  location of water-quality stations..... 27
  location of observation wells..... 428
Marion Junction, Cahaba River near..... 121-123
Maysville, Boiling Spring near..... 415-417
McCullars Spring near Alexandria..... 338
McKenzie, Sepulga River near..... 50-51
Mean discharge, definition of..... 6
Measuring point, definition of..... 7
Melvin, Billis Creek near..... 337
Meridianville, Brier Fork Flint River above
    Beaverdam Creek near..... 415-417
Micrograms per liter, definition of..... 7
Middle Fork Little River on Alabama State
    Road 58 near Valley Head..... 345
Midway, Bluff Creek near..... 335
Mill Creek near Shelby..... 339
Milligrams per liter, definition of..... 7
Minor, Village Creek at..... 340
Minter, Cedar Creek at..... 131-132
Mitchell Lake.....278, 279
Mobile, Montlimar Creek at U.S. Highway
    90 at.....280, 424
Mobile River basin, crest-stage partial-
    record stations in..... 335-337
  discharge measurements at miscellaneous
    sites in..... 338-342
  flood-hydrograph partial-record stations
    in..... 323-334
  gaging station records in..... 61-276
  reservoirs in..... 277
Monroeville, Alabama River at Claiborne
    lock and dam near..... 136-137
Montgomery, Alabama River at..... 92
  Alabama River near..... 93-100
  Catoma Creek near..... 101-102
  Hannon Slough at Bear School at..... 423
  Tallapoosa River near..... 91, 347
  Three Mile Branch at Biltmore Avenue at... 423
Montlimar Creek at U.S. Highway 90 at
    Mobile.....280, 424
Moores Branch near Victoria..... 335
Morris, Creeked Creek near..... 175-189
  Turkey Creek at..... 169-171
  Tributary to Crooked Creek near..... 360
  Tributary to Turkey Creek downstream from. 355-356
Moundville, Elliotts Creek near..... 248
Mountain Fork near New Market..... 412-414
Mt. Carmel, Flint River near..... 294-295, 343
Mt. Olive, Crooked Creek near.....340, 359
Muckleroy Spring near Whitney..... 338
Mud Creek near Fernbank..... 336
Mulberry Fork near Arkadelphia..... 162
Mulberry Creek at Jones..... 105-106
Mulberry Fork at Cordova..... 167
  near Garden City..... 160-161
Murder Creek at Kirkland..... 56, 422
  near Evergreen..... 54-55

Nances Creek near White Plains..... 335
National stream-quality accounting network,
    definition of..... 12
Networks, special and programs..... 12
Newell, Little Tallapoosa River near..... 83, 423
New Hope, Paint Rock River near..... 412-414
New Lexington, Barbee Creek near..... 407
  Tyro Creek near.....342, 386
New Market, Mountain Fork near..... 412-414
  Watercress Spring near..... 412-414
Newton, Choctawhatchee River near..... 32-35
Newton Creek near Dothan..... 338
North River near Samantha..... 242-243
Northport, Black Warrior River at..... 244-246
  tributary to Yellow Creek near..... 372-377
  Yellow Creek above..... 367-371
  Yellow Creek near..... 208-226
Noxubee Creek near Geiger..... 353
Numbering system for wells and miscellaneous
    sites..... 11

Page

Oak Grove, Valley Creek near..... 197, 337
Oakman, Blue Creek near..... 200-205
Oakmulgee Creek near Augustin..... 118-120
near Summerfield..... 423
Observation well, definition of..... 7
Organism, definition of..... 7
Orrville, Big Swamp Creek near..... 124-130, 424
Owens Cross Roads, Flint River near..... 415-417
Ozark, Judy Creek near..... 335

Paint Rock River at Butler Mill near Woodville..... 412-414
near New Hope..... 412-414
near Woodville..... 288-289
Panther Creek near Hacoda..... 39, 421
Partial-record station, definition of..... 7
Particle-size classification..... 7
Pascagoula River basin, gaging-station records in..... 281-282
Paterson Creek near Central.....77, 409-411, 423
Patsaliga Creek near Brantley..... 48, 422
Pea River at Elba..... 38
near Ariton..... 37, 322
Penny Spring at Pinson..... 339, 409-411
Percent composition, definition of..... 7
Perdido River basin, gaging-station records in..... 58-60
Perdido River at Barrineau Park, Fla..... 58-60
Pesticide program, definition of..... 12
Pesticides, definition of..... 8
Peterson, tributary to Rocky Branch near.... 364
Phillips Spring near Valley Head..... 343
Phytoplankton, definition of..... 8
Pickensville, Coal Fire Creek near..... 145, 350
Picocurie, definition of..... 8
Pinson, Penny Spring at..... 339, 409-411
Plankton, definition of..... 8
Pleasant Ridge, Sipsey River near..... 352
Pleasant Site, Cedar Creek near..... 313-315
Plevna, Hester Creek near..... 412-414
Pond Creek near Deer Park..... 425
Proctor Creek near Rockford..... 336
Prospect, Tenn., Elk River near..... 303
Publications on Techniques of Water Resource Resources Investigations..... 21

Red Bay, Bear Creek near..... 312, 425
Reform, Lubbub Creek at..... 339
Reservoirs: See Lakes and reservoirs.
Rhodesville, Rock Spring near..... 344
River Falls, Conecuh River at..... 49
Robinsonville, Sizemore Creek near..... 335
Robinwood Spring near Robinwood..... 340
Rock Spring near Rhodesville..... 344
Rockford, Hatchet Creek near..... 75-76
Proctor Creek near..... 336
Rogersville, Blowing Springs near..... 343
Runoff in inches, definition of..... 8

Samantha, Barbee Creek near..... 407
Bear Creek near..... 227-241
Cripple Creek east of..... 342, 395-396
Cripple Creek near..... 342, 394
Dry Branch near..... 342, 388-392
North River near..... 242-243
tributary to Bear Creek near..... 341, 387
tributary to Turkey Creek near..... 397
Sandtown, Little Tyro Creek near..... 341, 385
Satilpa Creek near Coffeeville..... 273-274
Sayre, Locust Fork at..... 190-191
Sediment, definition of..... 8
Selma, Alabama River at..... 107-109
Sepulga River near McKenzie..... 50-51
near Brooklyn..... 52, 422
Seven Springs Creek near Angel..... 338
Shades Creek near Greenwood..... 111-113
Shelby, Mill Creek near..... 339
Shirtee Creek at Sylacauga..... 338
Shoal Creek at Iron City, Tenn..... 306
Sims Chapel, Bates Creek near..... 337
Sipsey Fork near Grayson..... 163-166
Sipsey River near Pleasant Ridge..... 352
Sizemore Creek near Robinsonville..... 335
Sodium adsorption ratio, definition of..... 9
Solute, definition of..... 9
South Fork Cowikee Creek near Batesville.... 30, 421
South Pittsburg, Tenn., Tennessee River at.. 283
Special networks and programs..... 12
Specific conductance, definition of..... 9
Spencer Hill, Blue Creek near..... 340, 363

Page

Spring, definition of..... 9
Spring Tributary to Turkey Creek near Kimberly..... 357
Stage-discharge relation, definition of.... 9
Stallings Creek near Greenville..... 335
Steele, Gulf Creek near.....338, 423
Stevenson, Brown Spring near..... 343
Styx River near Loxley..... 335
Sucarnoochee River at Livingston..... 253-254
Sulligent, Buttahatchee River near..... 330-331
Summerfield, Oakmulgee Creek near..... 423
Suspended sediment, definition of..... 8
Suspended-sediment concentration, definition of..... 8
Suspended-sediment discharge, definition of 9
Sweetwater, Horse Creek near..... 337
Swift Creek near Vida..... 336
Sycamore, Tallaseehatchee Creek near..... 339
Sylacauga, Shirtee Creek at..... 338
Tallaseehatchee Creek near..... 338
Unnamed tributary to Shirtee Creek at.... 338

Talladega, Cheaha Creek near..... 336
Tallapoosa River at Wadley..... 84-86
below Tallassee..... 87-88
near Heflin..... 81-82
near Montgomery..... 91, 347
Tallassee, Tallapoosa River below..... 87-88
Tallaseehatchee Creek near Childersburg.... 338
near Sycamore..... 339
near Sylacauga..... 338
Taxonomy, definition of..... 10
Tennessee River at Decatur..... 301-302
at Florence..... 307-308
at pump station near Huntsville..... 408
at South Pittsburg, Tenn..... 283
at Whitesburg..... 296
Tennessee River basin, discharge measurements at miscellaneous sites in..... 343-344
flood-hydrograph partial-record stations in..... 334
gaging-station records in..... 283-319
reservoirs in..... 320
Tensaw, Majors Creek near..... 336
Terms, definition of..... 4
Terrapin Creek at Ellisville.....324, 422
Temperature recorder, definition of..... 9
Three Mile Branch at Biltmore Avenue at Montgomery..... 423
Tombigbee River at Coffeeville lock and dam near Coffeeville..... 257-265
at Demopolis lock and dam near Coatopa... 251
at Gainesville..... 151-158
below Coffeeville lock and dam near Coffeeville..... 266-272
below Demopolis lock and dam near Coatopa 252
near Cochrane..... 146-149
Tons per day, definition of..... 9
Total coliform bacteria, definition of..... 4
Town Creek near Geraldine..... 286-287
near Town Creek..... 343
Triana, Barren Fork Creek near..... 418-420
Tributary to Bear Creek near Samantha.....341, 387
Crooked Creek near Morris..... 360
Rocky Branch near Peterson..... 364
Turkey Creek downstream from Morris..... 355-356
Turkey Creek near Kimberly..... 358
Turkey Creek near Samantha..... 397
Yellow Creek above Watermelon Road near Tuscaloosa..... 378-382
Yellow Creek near Northport.....341, 372-377
Yellow Creek near Windham Springs..... 341
Troy, Indian Creek near.....42-44, 422
Tuckabum Creek near Butler..... 337
Turkey Creek (tributary to Alabama River) at Kimbrough..... 134-135
Turkey Creek (tributary to Locust Fork) at Morris..... 169-171
near Tuscaloosa..... 342, 398-405
upstream from Kimberly..... 172-174
Tuscaloosa, Black Warrior River at Oliver lock and dam at..... 247
tributary to Yellow Creek above Watermelon Road near..... 378-382
Yellow Creek at Watermelon Road near... 383
Turkey Creek near..... 342, 398-405
Tuskegee, Uphapee Creek near..... 89-90
Tyro Creek near New Lexington..... 342, 386

Uchee Creek near Fort Mitchell..... 29, 421

Page

Unnamed Spring at Webster's Chapel..... 338
tributary to Turkey Creek downstream from Morris..... 354
tributary to Shirtee Creek at Sylacauga... 338
tributary to Yellow Creek near Windham Springs..... 340
tributary to Yellow Creek southeast of Windham Springs..... 340
Uphapee Creek near Tuskegee..... 89-90
Uriah, Little River near..... 143-144
Utley, Johnson Branch near..... 342, 393

Valley Creek at 4th Street, Birmingham..... 340
near Bessemer..... 196, 424
near Oak Grove..... 197, 337
Valley Head, Allen Spring near..... 338
Middle Fork Little River on Alabama State Road 58 near..... 345
West Fork Little River at Taylor Ford near 346
Phillips Spring near..... 343
Victoria, Moores Branch near..... 335
Vida, Swift Creek near..... 336
Village Creek at Appalachee Street in Birmingham..... 332-333
at 86th Street, Birmingham..... 340
at Avenue W in Ensley..... 193, 424
at Minor..... 340
near Adamsville..... 194-195

Wadley, Tallapoosa River at..... 84-86
Walker Springs, East Bassett Creek at..... 337
Walnut Grove, Cove Creek near..... 339
Water-discharge, explanation of..... 12
Water-quality data, explanation of..... 18
Watercress Spring near New Market..... 412-414
Waxahatchee Creek near Columbiana..... 336
Webster Chapel Spring at Webster Chapel..... 409-411
Webster Chapel, unnamed spring at..... 338
Weewoka Creek near Childersburg..... 339
Weiss Reservoir.....277, 279
West Blocton, Cahaba River near..... 114
West Fork Little River at Taylor Ford near Valley Head..... 346
Wetumpka, Coosa River at..... 80
Coosa River at Jordan Dam near..... 78-79
Wheeler Lake..... 320
Wheeler Spring at Wheeler..... 343
White Plains, Nances Creek near..... 335
Whitesburg, Tennessee River at..... 296
Whitney, Muckleroy Spring near..... 338
Whitson, Little Yellow Creek near.....340, 361
Wilson Lake..... 320
Windham Springs, Blue Creek near.....340, 362
tributary to Yellow Creek near..... 340
tributary to Yellow Creek southeast of.... 340
Yellow Creek near..... 365-366
Woodville, Paint Rock River at Butler Mill near..... 412-414
Paint Rock River near..... 288-289
WRD, definition of..... 10
WSP, definition of..... 10

Yellow Creek above Northport..... 367-371
near Northport..... 208-226
at Watermelon Road near Tuscaloosa..... 383
near Windham Spring..... 365-366

October 13, 1977

FACTORS FOR CONVERTING U.S. CUSTOMARY UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the U.S. customary units published herein to the International System of Units (SI). Subsequent reports will contain both the U.S. customary and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

Multiply U.S. customary units	By	To obtain SI units
	Length	
inches (in)	2.54×10^{1}	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^{0}	kilometers (km)
	Area	
acres	4.047×10^{3}	square meters (m^2)
	4.047×10^{-1}	square hectometers (hm^2)
	4.047×10^{-3}	square kilometers (km^2)
square miles (mi^2)	2.590×10^{0}	square kilometers (km^2)
	Volume	
gallons (gal)	3.785×10^{0}	liters (L)
	3.785×10^{0}	cubic decimeters (dm^3)
	3.785×10^{-3}	cubic meters (m^3)
million gallons	3.785×10^{3}	cubic meters (m^3)
	3.785×10^{-3}	cubic hectometers (hm^3)
cubic feet (ft^3)	2.832×10^{1}	cubic decimeters (dm^3)
	2.832×10^{-2}	cubic meters (m^3)
cfs-days	2.447×10^{3}	cubic meters (m^3)
	2.447×10^{-3}	cubic hectometers (hm^3)
acre-feet (acre-ft)	1.233×10^{3}	cubic meters (m^3)
	1.233×10^{-3}	cubic hectometers (hm^3)
	1.233×10^{-6}	cubic kilometers (km^3)
	Flow	
cubic feet per second (ft^3/s)	2.832×10^{1}	liters per second (L/s)
	2.832×10^{1}	cubic decimeters per second (dm^3/s)
	2.832×10^{-2}	cubic meters per second (m^3/s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm^3/s)
	6.309×10^{-5}	cubic meters per second (m^3/s)
million gallons per day	4.381×10^{1}	cubic decimeters per second (dm^3/s)
	4.381×10^{-2}	cubic meters per second (m^3/s)
	Mass	
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons

U.S. DEPARTMENT OF THE INTERIOR
Geological Survey
P.O. Box V
University, AL 35486

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE $300

SPECIAL 4TH CLASS
BOOK RATE

POSTAGE AND FEE
U.S. DEPARTMENT OF THE
INT 413

UNIVERSITY OF ILLINOIS-URBANA
551.483UN32WA C001
WATER RESOURCES DATA FOR ALABAMA$UNIVERS
1976/77
3 0112 007576744

U.S.MAIL